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Minutes of the 471st meeting of the Council of the Faculty of Arts and Science, held on Monday, November, 4, 1957, at 4:30 p.m. in the Senate Chamber.

Present were: Acting Dean Smith in the Chair; Professors Allen, Blackley, Brodie, Collier, Collins, Cormack, Crichton, Crosby, Davis, Davy, Duggan, Elder, Folinsbee, Garland, Glyde, Goodale, Grayson-Smith, Greene, Gunning, Hardy, Hocking, Horton, Jacka, James, Jones, Keeping, Kreisel, Lindberg, Lowig, McIntyre, Mackenzie, Mardiros, Morrison, Moser, Newbound, Ryan, Scargill, Scott, Spearman, Stelck, Thomas, Spencer, Von Richthofen, Watson, Whyte, Wonders, Wyman, and Mr. Cairns, the Registrar. Assistant Professor Reinhold was present on the invitation of the Dean.

The Dean welcomed Professor Mary Spencer to the Council. He informed Council that Dr. Spencer was replacing Professor Tuba as the representative from the Department of Biochemistry on the Council.

1. Minutes of the Meeting of October 7, 1957.

The Dean pointed out certain typographical errors in the mimeographed version of the minutes which had been corrected in the official copy. Professor Davis noted that the minutes did contain an error in addition to those pointed out. Chemistry 111 was not to be dropped from the Arts & Science Calendar; the course will be retained in the Calendar but is not to be offered for a time.

It was moved by Professor Brodie and seconded by Professor Newbound, that the minutes of the last meeting, subject to the correction of errors, be approved as circulated.

The motion was carried.

The Dean announced that the title of Professor Blackley is to be changed from that of "Assistant to the Dean" to "Secretary to the Faculty".

2. Report of the Patterns Committee.

(a) It was moved by Professor Greene and seconded by Professor Thomas that the following general course regulation be rescinded:

"...students, if they have an average of 75% and four second-class standings in the second year, will be required to take only four courses, and if they have four second-class standings but an average of less than 75% they may apply for the privilege, and the applications will ~~be~~ considered on their merits." (Page 41, para. 2; Arts and Science Calendar, 1957-58).

It was pointed out by the Dean that this regulation, designed to give good students extra time for reading, was passed by the Arts & Science Council in the January, 1949 meeting. The vote indicated that there was not, at that time, complete unanimity on the desirability of such a regulation. He also pointed out that very few students have taken advantage of the regulation. In the current session, two out of eight students in Arts have invoked the regulation, while not one of the four eligible science students requested a four course program.

Professor Greene, when questioned, stated that the scientific departments felt that their students could not afford to drop one of their courses in their final year. There was considerable objection, he felt, to the lack of sharpness in the regulation as contained in the Calendar. Finally, he re-emphasized the fact that very few students availed themselves of opportunity for a four course program allowed by the regulation.

The motion was carried.

(b) It was moved by Professor Greene and seconded by Professor Moore, that the following regulation be inserted in the Arts and Science Calendar:

"Students who have successfully completed two years of a B.Sc. pattern and two years of Medicine may qualify for the B.Sc. by completing the requirements of the pattern chosen. Certain courses in Medicine may be equated with certain science courses given in the Faculty of Arts and Science, for example:

Biochemistry 11	-	Biochemistry 50
Physiology 11	-	Physiology 61 (plus)
Bacteriology 21	-	Bacteriology 61
Biochemistry 21	-	Biochemistry 60
Physiology 21	-	Physiology 62. "

There was considerable discussion on the exact wording of the regulation. It was finally decided to end the regulation at "the Faculty of Arts and Science", leaving out the examples given. The examples given, Professor Greene pointed out, were for the information and guidance of members of Council, and, if put in the Calendar, might give erroneous ideas to students. The mover and the seconder accepted the amendment.

It was also moved by Professor Greene and seconded by Professor Moore that the requirements for B.A. and B.Sc. after B.Ed. be amended to read "at least six senior courses", and that the requirement for B.A. after B.Sc. and B.Sc. after B.A. be amended by deleting "as closely as possible".

For the B.A. after B.Sc. and the B.Sc. after the B.A., the committee recommended that: "if it happens that a student conform exactly to a particular pattern with only eight courses, the ninth course should be an open option."

The Dean pointed out that the existing regulations had been found to be too rigid. As an example, he pointed out that one student with a B.Ed. wished to take the Special B.Sc. pattern and that to meet the pattern requirements she needed ten subjects, not the six approved senior subjects required in the existing regulations. The existing regulation concerning the B.A. after the B.Sc. and the B.Sc. after the B.A. is upon occasion difficult to apply with any fairness.

The motions were carried.

(C) The Patterns Committee recommended that the following statement be inserted in the appropriate place in the calendar:

"Prospective students in Medicine are advised that the admission requirements of the Faculty of Medicine may be fulfilled in the B.A. patterns by an appropriate choice of science courses and use of the free option."

This was moved by Professor Greene and seconded by Professor Elder.

While it was generally accepted by Council that a statement of this general sort should be found in the Arts and Science Calendar, it was felt that the statement as put forward by the Patterns Committee was not broad enough. The

statement should make it clear that the requirements for Medicine can be met by those who complete the three years of the B.A. pattern only. There should also be a statement on the correct use of the B.Sc. patterns for filling the requirements for Medicine.

The motion was tabled, with the agreement of the mover and the seconder, for redrafting, with the suggestion that it appear under the general course regulations.

3. University Standing Committees.

The Summer Session Committee has requested that a representative of this Faculty be added to the Committee; and the Vice-President has asked that one be named at once for inclusion in the revised Roster of Standing Committees now in preparation.

It was moved by Professor Blackley and seconded by Professor Brodie that Professor Thomas of the Department of History be appointed. Dr. Thomas agreed to serve if requested.

The motion was carried.

4. Committees to supervise students in the pre-law years of the combined course in B.A., LL.B. and the year of pre-dentistry.

The Dean suggested that Council consider the advisability of appointing committees to act in lieu of a department for students in pre-law and pre-dentistry. The duties of such committees would consist of providing general guidance and particularly guidance in the selection of subjects taken. Hitherto, he noted, this guidance had been given by members of the Arts and Science Office but that a check on what was done, provided normally by a student's department, was not possible.

It was moved by Professor Whyte and seconded by Professor Blackley that the Dean's suggestion be adopted.

It was argued by Professor Morrison that this guidance should be provided

by Dentistry and Law, as these faculties were the ones into which the students were seeking entrance. To this there was considerable objection since it would mean that the Faculty would be giving a B.A. degree (in the case of the student's taking the combined B.A.,LL.B. course) solely on the advice of another faculty.

The motion was defeated.

During the discussion on the defeated motion, Professor Thomas suggested that he would like to see a representative from the Faculty of Law on the Council of the Faculty of Arts and Science.

The Council then proceeded to consider what other alternative might be devised to deal with students in pre-law or pre-dentistry. It was argued that these people must be completely under the control of the Faculty of Arts and Science, since those who were unsuccessful in obtaining admission to Dentistry or Law would have to obtain their degrees in one of the standard patterns. The idea was put forward that such students perhaps should conform to one of the standard patterns, but the Dean noted that this was impossible. The courses taken in the first two years of the B.A.,LL.B. combined course, with the exception of the options, are taken by students because the Faculty of Law wishes them to do so, Professor Morrison stated that the Faculties of Law and Dentistry should provide staff members to assist at registration and that these should consult with the Dean's Office.

It was then moved by Professor Morrison and seconded by Professor Ryan that representatives of the Faculties concerned by^s asked to register the students in the pre-law and pre-dentistry patterns.

The motion was defeated.

5. Renumbering of junior courses.

The Dean reported that at the meeting of March 5, 1956, Council approved that the following six courses be renumbered as follows:

> Art 40 to 35)
 Drama 40 to 35) or, possibly, lower numbers
 Music 41 to 35)

Chemistry 40 to 35)
 Physics 40 to 35) or, possibly, lower numbers.
 Physics 41 to 36)

This action was taken so that these courses would be considered henceforth as junior courses only. It was impossible for these changes to be incorporated in the 1956-57 Calendar as the Calendar was in the process of being printed. These numbers have not been changed by the departments concerned, with the exception of Drama 40 (first offered in 1956-57 and so numbered 35). No further change was made in the 1957-58 Calendar and it was the impression of the Faculty Secretary that action was required by the departments concerned before changes could be made in the forthcoming calendar.

The Dean now brought forward a request from the Department of Fine Arts that Music 41 become Music 35 and that Art 43 become Art 35. This was moved by Professor Glyde and seconded by Professor Crighton.

In the discussion which followed, the Registrar asked if the course change, approved by the Arts and Science Council at the March, 1956 meeting, had been approved by the General Faculty Council. The Dean promised to see if such approval had been given.

The motion was carried.

6. Recommendations from Departments for New Courses and Calendar Changes.

(a) School of Household Economics.

CHANGE IN MATRICULATION REQUIREMENTS

It was moved by Professor McIntyre and seconded by Professor Duggan, that the matriculation requirements for Household Economics be changed from:

"Two of Chemistry 30, Physics 30, Biology 32 - preferably Chemistry and Physics,....."

to:

"Chemistry 30 and either Physics 30 or Biology 32 - preferably Physics,...."

Miss McIntyre pointed out that it was essential for students in Household Economics to have Chemistry 30 and that she would like to see them possess Physics 30 as well. The advisability of asking definitely for Chemistry 30 and Physics 30 was discussed, but Miss McIntyre did not wish to so amend her motion. At some High Schools, still, it is possible to get only Biology 32.

The motion was carried.

(b) Department of Modern Languages.

NEW COURSES

It was moved by Professor Greene and seconded by Professor von Richthofen that the following courses be added to the Calendar:

1(b). Beginners' Russian (Science Section) (3,0;3,0)

A course designed to meet the needs of honors students in science departments, students of the Faculties of Agriculture and Engineering of any year, and graduate students who require an elementary reading knowledge of Russian scientific texts.

Students in the general course should register in Russian 1(a).

40. Second Year Spanish Authors and Grammar (3,0;3,0)

A review of Spanish grammar and phonetics; Spanish literature of the twentieth century.

Professor Greene pointed out that there are at the moment eight students taking the equivalent of the proposed Russian 1b without credit, which indicated the need for such a course. Professor Collier suggested that science students have their afternoons occupied by laboratories and that it would be impossible for the majority of them to take the proposed Russian 1b in the afternoon. Professor Greene replied that the Russian section of his department would be prepared to give this course at times suitable for science students providing that the necessary space could be obtained for the holding of classes.

Professor Greene stated that the proposed course in Spanish 40 was the second step to be taken in the building up of courses in Spanish; the first being the introduction of Spanish this session.

The motion was carried.

CALENDAR CHANGES

It was moved by Professor Greene and seconded by Professor von Richthofen that the following changes be made in the Modern Languages section of the Arts and Science Calendar:

Russian

Change 1. to 1(a). Beginners' Russian

Spanish

Delete everything under 1. and substitute:

1. Beginners' Spanish (5,0;5,0)

A first course in Spanish grammar and pronunciation; an introduction to Spanish and Latin American culture.

German

German 1(b), last line: change may to will.

Page 113 of the current calendar: delete the heading Intermediate Courses and put Senior Courses in its place.

French

Change French 1 and A. First Year to French 1 or A. Beginners' French.

Page 110 of the current calendar, under Senior Courses, first line, add:
All except French 50 and 80 will be conducted in French.

51. Eighteenth Century.

A study of the literature and the evolution of ideas in the eighteenth century: Fontenelle, Marivaux, Montesquieu, Voltaire, Diderot, Rousseau, Beaumarchais.

(Delete Note and pre-requisite)

57. Romantic Period.

A study of the sources and history of French romanticism: Mme. de Stael, Chateaubriand, Lamartine, Hugo, Musset, Vigny.

(Delete Note and pre-requisite)

64. Seventeenth Century

Add: Pre-requisite: One senior French course.

101. Change description to:

A study of the earliest texts; La Vie d'Alexis; La Chanson de Roland; Marie de France, Les Lais; Le Miracle de Théophile; La Farce de Maistre Pierre Pathelin; medieval lyric poetry; François Villon.

107. The Renaissance.

A study of the literature of the sixteenth century, with particular attention to the works of Rabelais, Ronsard and Montaigne.

Professor Greene pointed out that the changes in Spanish 1 were recommended to remove restrictions designed to limit enrollment in the first year the course was offered. The changes in the descriptions of French courses were largely designed to make the French courses consistent in their Calendar description.

The motion was carried.

CALENDAR CHANGES FOR THE 1958 SUMMER SESSION

The Dean informed the Council that the 1958 Summer Session of the University of Alberta, at the invitation of the Canadian Linguistic Association, will hold a Summer School of Linguistics in which seven courses in all will be offered. Visiting students, taking these courses, which will all be of University weight, will be registered as special B.A. students. Since Assistant Professor Reinhold will be the staff member principally concerned with the school, he was present at the Council meeting at the invitation of the Dean.

It was moved by Professor Greene and seconded by Professor Scargill that the following new courses in the Department of Modern Languages be approved as a part of the Summer School of Linguistics in 1958:

Descriptive Linguistics 104Su (10-0)

A survey of the techniques used in the analysis and description of language structure with drill in practical applications to several living languages including American Indian and/or Eskimo.

General Linguistics 105Su (10-0)

An introduction to the study of language and languages including theories of origin, language families, history, types of language, linguistic change. Emphasis will be placed on modern European languages.

French 80Su (10-0)
(Description as it now stands)

Professor Hardy wished that some reference be made to the comparative philology of classical languages in the Summer School of Linguistics, pointing out that students normally begin their studies of philology by taking Greek, Latin and Sanskrit. Professor Reinhold replied that, while he agreed with the sentiments expressed by Professor Hardy, he had been guided by the request of the Canadian Linguistics Association which did not include classical philology.

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He hoped, however, that classical philology might be included in a later general linguistics school.

Professor Greene asked that neither of the two proposed linguistics courses appear in the Arts and Science Calendar, since they were to be approved for the 1958 Summer Session only.

The motion was carried.

(c) Department of English

CALENDAR CHANGES FOR THE 1958 SUMMER SESSION

It was moved by Professor Jones and seconded by Professor Scargill that, as a part of the same Summer School of Linguistics, the following new courses in the Department of English be approved:

Modern English Grammar 91 (10-0)
A survey of several approaches to the description of modern English grammar.

Linguistic Geography 92 (10-0)
An introduction to the dialect geography of American and Canadian English, with work on materials from Alberta and elsewhere.

It was stated that English 92 (Linguistic Geography) would be dropped when the institute was over. However, English 91 (Modern English Grammar) may be offered again but not until it has undergone review.

The motion was carried.

(d) Department of Mathematics

NEW COURSES

It was moved by Professor Keeping and seconded by Professor Moser, that the following new course be offered by the Mathematics Department:

Mathematics 47. Classical Algebra (3,0;3,0)

The number system. Scales of notation, Complex numbers, Polynomials, Permutations and Combinations, Binomial and Multinomial Theorems, Summation of Series, Probability, Continued Fractions, Theory of Equations, Linear Transformations and Elementary Matrix Theory, Quadratic Forms.

Professor Keeping pointed out that this course in classical or traditional algebra was being proposed at the request of the Physics Department. The introduction of Mathematics 47 will mean changes in the Physics and Mathematics patterns and Honors programs and in one of the Education patterns.

The motion was carried.

It was moved by Professor Keeping and seconded by Professor Horton, that the following new course be placed in the Arts and Science Calendar:

Mathematics 120.

(3,0;3,0)

Selected topics in theoretical physics.

This course will be available to advanced students in either Applied Mathematics or Physics, and is listed as a Mathematics course since it will be given by Professor Horton.

The motion was carried.

The Dean suggested that, although there were before him other suggested Calendar changes, the hour was late and that these changes be held over until the December meeting of Council. He requested that the Departments who still had not turned in all Calendar changes, do so within the next two weeks. Requests for program changes in various patterns ^{have been} referred to the appropriate committees for their consideration before they are brought forward to Council.

7. Special Case.

It was moved by Professor Grayson-Smith and seconded by Professor Scott that Mr. Kenneth Hicken be allowed to complete the last two years of his course in Honors Physics in three years, taking four courses each year.

It was explained that Mr. Hicken was allowed to interrupt his Honors program at the end of the second year, in 1954, to go to Germany as a missionary for the Church of Jesus Christ of the Latter Day Saints. Originally, the permission was for two years absence but this was later extended to three years. Now, Mr. Hicken finds difficulty in continuing in the normal Honors program. He is

suffering from an eye infection which prohibits extensive reading; some of the basic courses which he took have now been changed greatly in content and the student himself finds that his long absence from the study of Physics causes him great difficulty. In view of the fact that Mr. Hicken was given permission to be absent, and that he was an excellent student in the past, the Physics Department proposed the motion noted above. It was proposed that Mr. Hicken drop Physics 53 and 56, Music 51 and that he substitute for them Physics 46, Physics laboratory 55a and Mathematics 40. The two lecture courses, Physics 46 and Mathematics 40, Mr. Hicken has taken before, although their content has been changed. His program for this year will be Physics 46, 54, 55a, Mathematics 40 and Mathematics 57. Mr. Hicken will provide a medical certificate covering his eye infection.

The motion was carried.

Council asked if this change in Mr. Hicken's program would affect his scholarship. The Dean thought that the scholarship might not cover Mr. Hicken's final year but that Mr. Hicken was aware of this possibility.

9. Consolidated Christmas Examinations.

The Dean asked Council if any departments desired to use the facilities of the Registrar's Office for the arrangement of consolidated Christmas examinations. A number of departments indicated that they wished so to do and the Registrar indicated that he would be prepared to do his part in providing them.

10. Scholarships and Fellowships.

The Dean brought to the attention of members of Council two fellowships, the Nuffield and the Woodrow Wilson, and urged that these be given as wide publicity as possible since they are excellent awards.

11. Completion of the B.Comm. degree by evening credit program only.

In the absence of Professor Lindberg, who had been forced to leave Council early, the Dean brought forward the resolution of the Council of the School of Commerce:

Resolved that the Council of the School of Commerce hereby goes on record expressing its desire to make it possible for evening students pursuing an approved course of studies to be able to obtain a Bachelor of Commerce degree on the successful completion of such studies; in other words the Council of the School of Commerce desires to establish that the attendance at authorized Evening Credit Courses will meet the present resident requirements.

Resolved that the Council of the School of Commerce urges the Faculty of Arts and Science to approve this resolution not later than the February 1958 meeting and likewise the General Faculty Council not later than its March 1958 meeting.

It is the understanding of the Council of the School of Commerce that the offering of this programme depends upon:

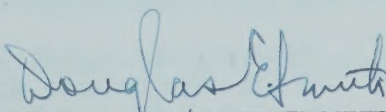
1. the availability of qualified staff, and
2. sufficient enrollment in such proposed courses.

It was moved by Professor Jones and seconded by Professor Morrison that the resolution of the School of Commerce was the same as the motion defeated in Council in March of this year and that it not be reconsidered at this time.

Mr. Cairns pointed out that this resolution had been favorably discussed at the Senate but that it was the concern of the Faculty of Arts and Science. Professor Davy felt that since none of the members of the School of Commerce were present at Council that the resolution should be tabled. This amendment was accepted by the mover and seconder. The motion was tabled.

It was asked by members of Council if Professor Lindberg had in mind any modifications of the original proposal defeated in March. The Dean said that he would speak to Professor Lindberg on this matter and that, since the minutes of the March meeting had not been circulated, he would circulate among members of Council that portion which dealt with the proposal of the School of Commerce.

The meeting adjourned at 6:08 p.m.


A/ DEAN

Minutes of the 472nd meeting of the Council of the Faculty of Arts and Science, held on Monday, December 2, 1957, at 4:30 p.m. in the Senate Chamber.

Present were: Acting Dean Smith in the Chair; Professors Bhatia, Blackley, Brodie, Collier, Collins, Cook, Cormack, Crighton, Crosby, Davis, Duggan, Eaton, Elder, ^{Garland} Folinsbee, Gainer, Glyde, Godfrey, Goodale, Grayson-Smith, Greene, Hanson, Hardy, Hocking, Horton, Keeping, Kreisel, Lindberg, Lowig, McIntyre, Mardiros, May, Moore, Newbound, Peacock, Phibbs, Ryan, Salter, Scott, Stelck, Taylor, Thomas, Trainor, Spencer, von Richthofen, Wallace, Whyte, Wonders, and Mr. Cairns, the Registrar.

1. Minutes of the Meeting of November 4, 1957.

It was pointed out that the defeated motion moved by Professor Morrison and seconded by Professor Ryan should read "that the representatives of the Faculties concerned be asked to assist the Secretary of the Faculty of Arts and Science to register the students in the pre-law and pre-dentistry patterns".

It was moved by Professor May and seconded by Professor Godfrey that the minutes of the last meeting with correction of the error noted, be approved as circulated.

The motion was carried.

2. Business Arising from the Minutes.

(a) Calendar statement regarding prospective students in Medicine.

It was moved by Professor Greene, and seconded by Professor Moore, that the following statement appear in the Arts and Science Calendar under General Course Regulations:

"Students who expect to transfer to the Faculty of Medicine from the Faculty of Arts and Science should register in one of the patterns for the B.A. or the B.Sc. The requirements for admission to the Faculty of Medicine are at least two years of university training, with appropriate standing, and credit, in Chemistry 35 and 42, Physics 1, 35 or 36, and Zoology 1. These

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qualifications can be obtained, by proper choice of course, in the first two years of the Botany, Chemistry, Entomology, Experimental Psychology, General Science, Mathematics, Physics or Zoology patterns. The same qualifications can be obtained in three years in any pattern for the B.A."

The Dean pointed out that, while the subjects necessary for admission to Medicine could be obtained also in the Special B.Sc. pattern, that pattern was not mentioned.

The motion was carried.

(b) Resolutions of the School of Commerce.

The Dean requested that consideration of the request by the School of Commerce for completion of the B.Comm. degree by Evening Credit Program only be tabled for the February meeting. He noted that all the information that he felt to be necessary for a discussion of this subject was not yet available. To this proposal there was no objection.

(c) Renumbering of Junior Courses.

The Dean announced that General Faculty Council had approved the re-numbering of the following five junior courses:

Drama 40 to Drama 35
Music 41 to Music 35
Chemistry 40 to Chemistry 35
Physics 40 to Physics 35
Physics 41 to Physics 36.

While departments concerned could put forward alternative proposals, failing such proposals, the five courses would appear with their new lower numbers in the forthcoming Arts and Science Calendar. Courses given by other departments numbered 40 will stand until those departments take appropriate action to bring about a re-numbering. Professor Davis noted that the Chemistry Department proposed to re-consider the whole Chemistry program and offerings at Christmas, including the numbering of Chemistry courses. The Dean replied that Council would consider any proposals for the course now numbered Chemistry 40 but failing such proposals that course would appear in the new calendar as Chemistry 35.

- (d) Report on students who graduated as a result of October supplementals.

For information only, Professor Blackley, the Chairman of the Revisions Committee, noted that the following students were recommended to General Faculty Council for the degree of B.A. as a result of October supplementals:

Eddy, Wesley Percy
Tanner, Shirley Louise
Wright, Elizabeth Stirling.

The following students were recommended to General Faculty Council at the same time for the degree of B.Sc.:

Dalton, Arthur Joseph Louis
Webber, Patrick Neil
Zahar, Edward William Roy.

3. Calendar Changes.

(a) New Courses.

(i) Department of Botany

It was moved by Professor Brodie and seconded by Professor Whyte, that the following course replace the existing course Botany 1:

- 1a. First Term (2-4;0-0)
Basic features of plant growth, structure and reproduction. Special reference to plants of economic importance. Relation of plant life to human welfare. Brief survey of plant kingdom.
- 1b. Second Term (0-0;2-4)
Survey of structure, life cycles and evolution of all major groups of the plant kingdom. Biological interdependence of selected plant groups.

All students except those in Agriculture and Pharmacy must complete both parts of the course to obtain credit.

Professor Brodie explained that all the junior Botany courses except Botany 5, for Education students, had been amalgamated in the proposed course. A modern Biological science course, he went on, needs as much emphasis as possible upon laboratory experiments and those that are used as illustrative material for a junior Botany course need two hour laboratories for their completion. As a result, Botany 1a and 1b hours will be two lectures and four laboratories each week.

The suggested change had been discussed with the Faculty of Pharmacy, and Pharmacy had accepted the change subject to the removal of time-table difficulties. Professor Whyte had investigated possible time-table difficulties and reported that all appeared to be feasible, save for a fitting in of the usual odd off-pattern students.

The Dean noted that the change in laboratory hours was a radical one. If there was to be any questioning of this, he urged that the discussion take place now. Council, however, appeared to be satisfied. The Registrar reported that the views of his office on the lecture and laboratory requirements of this course had been given to Professor Whyte when the question of time-tabling had been discussed.

The motion was carried.

(ii) Department of Classics

It was moved by Professor Hardy, and seconded by Professor May that a proposed course, Classics 114, be approved for the 1958 Summer School of Linguistics to be held at the University of Alberta during the ordinary Summer Session. This course was the eighth of those to be offered at that school. The course description was as follows:

114. Comparative Classical Philology (10-0)
An introduction to the study of the Indo-European language groups with particular reference to Greek and Latin. Special attention will be given to phonology, etymology, semantics, and morphology, and to the comparative syntax of Greek and Latin. A reasonable knowledge of one of Greek or Latin is essential.
Text: Buck: Comparative Grammar of Greek and Latin.

Professor Hardy stated that the course, if approved, would be given only at the 1958 Summer Session, unless the School of Linguistics was continued here at a later date. The Dean explained that the initial numbering of the proposed course had been 114Su, but he had been informed that "Su" was for Summer School courses with a winter approximate.

The motion was carried.

(iii) Department of Pathology

It was moved by Professor Collier and seconded by Professor Newbound that the following course be approved for inclusion in the Arts and Science Calendar:

Pathology

61. Clinical Pathology

(1-2;1-2)

A course in Clinical Pathology designed for students in the Special B.Sc. pattern. The lectures will be on the use and interpretation of laboratory methods as diagnostic aids. The laboratory periods will be designed to develop in the students a high degree of accuracy and reasonable speed in hemotological and other clinical pathological procedures that are used in a modern hospital laboratory.

The Dean informed Council that this course, designed for students in the Special B.Sc. program, had been approved by the Council of the Faculty of Medicine, at its meeting on November 18.

The motion was carried.

(iv) Department of Geography

It was moved by Professor Wonders and seconded by Professor Blackley, that the following courses in Geography be approved:

72. Europe

(3-1S;3-1S)

An introduction to the physical and historical geography of Europe, followed by the geographical characteristics of units within the continent. Seminar time will be devoted to selected detailed studies.

Pre-requisite: Consent of the instructor.

73. Advanced Physical Geography

(3-0;3-0)

A study of climate, vegetation, soils and landforms with stress on the water relationships of each - precipitation, evapotranspiration, stream flow, soil moisture, ground water. Water as a factor in the location of economic activities. World patterns of water supply and demand with stress on water problems in the Prairie Provinces.

Pre-requisite: Geography 1 or consent of the instructor.

NOTE: This is a C Division Course.

In answer to questions, Professor Wonders explained that Geography 72 was a B Division course. As for the pre-requisite, he stated that the Department would

prefer students to have taken Geography 1 but realized that this course might be very valuable to students in the History pattern, and in such cases the department would allow registration without that junior course. There might be other similar cases, he thought, and hence the department was stipulating the consent of the instructor before students would be allowed to take this course rather than Geography 1.

Professor Whyte asked if Botany 1 should not be made a pre-requisite for Geography 7³~~4~~. Professor Wonders replied that, while he would be very happy if students taking Geography 73 had taken Botany 1, the basic concepts required were those of Physical Geography and not of Botany. These concepts would be best obtained in Geography 1. Professor Folinsbee queried the absence of laboratory periods in Geography 73, since it was supposed to be a Science course. Professor Wonders explained that formal laboratories were not necessary. The course, he expected, would be a small informal one and during the assigned hours the instructor would find ample opportunity for what in practice would amount to laboratory periods. Professor Wonders agreed to time-table the course as 3L-0;3L-0 rather than as the suggested 3-0;3-0. The Dean assumed that Geography 72 would be carried in List II of the Special A or B courses for B.Sc. students. Professor Wonders agreed that this would be the case.

The motion was carried as amended.

(v) Department of Geology

It was moved by Professor Folinsbee and seconded by Professor Stelck that the following courses be approved:

- | | |
|--|------------------------|
| 62. Photogeology | (1-3;0-0) |
| The application of aerial photographs to the preparation of planimetric and geological maps. | |
| 109. Geological Research | (0-8;0-0) or (0-0;0-8) |

Professor Folinsbee explained that neither course was a full course. Geology 62, he said, was a half course to be taken by fourth year honor students and a few others. Geology 109 was designed for graduate students who were not in the final year of the graduate program. There was some discussion on the difficulties inherent in a course with eight hours of laboratory a week in one term. Professor Folinsbee felt that such difficulties, if they existed, had been met for similar courses, particularly in Chemistry.

The motion was carried.

(vi) Department of History

It was moved by Professor Collins and seconded by Professor Thomas that the following course be approved:

77. History of France (3-0;3-0)
A study of the political and social development of France from the Celtic period to the Fourth Republic.

In answer to a question by Professor Greene, Professor Collins said that this new course presumably would be offered every second year. Professor Greene expressed his pleasure over this proposed new offering, which would be very useful to the French Division of the Department of Modern Languages.

The motion was carried.

(vii) Department of Mathematics

It was moved by Professor Keeping and seconded by Professor Grayson-Smith that the following course be approved:

48. Statistical Treatment of Experimental Data (1-0;1-0)
Errors of observation, systematic and random. Frequency distributions. The mean and standard deviation. The Binomial and Poisson distributions. The Gaussian law of error. Two-variable problems - regression and correlation. Fitting of curves by least squares.
Relation between sample and population. Distribution of the sample mean and standard deviation. Confidence limits. Significance of experimental results. The power of a statistical test.
Pre-requisite: Mathematics 40.
Note: This is a required course in the Honors Physics program. It will be admissible in other programs only as an extra.

The Dean explained that, since the Council meeting material had been sent out, the proposed course Physics 57 (Treatment of Experimental Data) had been dropped by the department concerned, and that the proposed Mathematics 48 was to take its place. Professor Scott wondered, in view of the remarks that were made on course numbering, if the number 48 was high enough for the proposed course. Professor Keeping replied that the course was intended as a Senior course and that the number 48 indicated this.

The motion was carried.

(viii) Department of Philosophy and Psychology

It was moved by Professor Mardiros and seconded by Professor Kriesel that the following course be approved:

	Philosophy	
105. Aesthetics (Advanced Course)		(3-0;3-0)

Professor Mardiros explained that this was "a resurrection, not a birth". Philosophy 105 had formerly been given, he stated, but had been dropped with the introduction of Philosophy 60, a senior course in aesthetics, five years ago. It was now found that students wish a more advanced course than Philosophy 60, and to meet their needs, he proposed the revival of Philosophy 105.

The motion was carried.

(ix) Department of Physics

It was moved by Professor Grayson-Smith and seconded by Professor Scott that the following course be approved:

99. Advanced Electronics	(2-1s;2-1s)
Application of complex variables, Fourior series and Laplace transforms to the solution of electronic circuits with linear and non-linear elements.	
Pre-requisite: Physics 56, Mathematics 57.	

Professor Grayson-Smith explained that this was an optional course for fourth year Engineering Physics and for fourth year honors students. The number 99 had been given with some reluctance. He felt that the course should be numbered

100 but he did not wish it to be a graduate course.

The motion was carried.

(x) Department of Political Economy

It was moved by Professor Hanson and seconded by Professor Gainer that the following courses be approved:

- | | | |
|------|--|-----------|
| | Political Science | |
| 60. | Soviet Government: Theory and Practice | (3-0;3-0) |
| | A study of Soviet political and social theory, and an analysis of the Soviet political system, with special reference to: The Communist Party, Political institutions, Federalism, Foreign Policy. | |
| | Pre-requisite: Political Science 3, or the consent of the instructor. | |
| 102. | International Institutions | (3-0;3-0) |
| | An advanced course in international relations, with special emphasis on the role of public international law, international organizations and diplomacy. | |
| | Pre-requisite: Political Science 55, or the consent of the instructor. | |

Professor Hanson stated that the course on Soviet government, in his opinion, was a necessary one in view of Russian predominance in world affairs. Political Science 102, he explained, was a graduate and honors course emphasizing international affairs.

The motion was carried.

(b) Changes in Course Description

(1) Department of Botany

It was moved by Professor Brodie and seconded by Professor Cormack that the following course changes, described as "less than minor" be approved:

- | | | |
|-----|---|-----------|
| 5. | Natural History of Alberta Plants | (3-3;3-3) |
| | Basic features of plant structure, development and classification; life habits of important plant groups with special reference to native plants of economic importance; outstanding characteristics of the vegetation of Alberta; conservation topics. | |
| 51. | Plant Anatomy and Histology | (3-3;3-3) |
| | A course in the structure and development of organs and tissues of the higher plants. Emphasis is placed on the experimental approach to anatomical studies and on the environmental and physiological control of development and morphology. | |
| | Pre-requisite: Botany 1 | |

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107. Advanced Plant Anatomy and Histology (6L;6L)
 Modern methods of preparing plant material for microscopic examination, with practice in fixing, embedding, cutting and staining.
 Pre-requisites: Botany 51 and 52.

The motion was carried.

(ii) Department of Geology

It was moved by Professor Folinsbee and seconded by Professor Stelck

that the following be approved:

1. General Geology
 Delete (3-2;3-2) and substitute (3-3;3-3).

106. Conference Courses
 Delete (3-3;0-0) and substitute (3-3;3-3).

Professor Folinsbee explained that the number of laboratory periods in Geology 1 in the past had been reduced from three to two hours a week because of space difficulties. Since these difficulties were now resolved, it was the wish of his department to return to the three hours of laboratory work a week. Geology 106 in the past had been reduced to a half course because there was not enough staff to continue it as a full course. Now, with the necessary staff available, the department wished to make Geology 106 once again a full course.

The motion was carried.

(iii) Department of History

It was moved by Professor Collins, and seconded by Professor Thomas that the note under History 3 (English History), "This course is offered in St. Joseph's College for Roman Catholic students as a junior B option.", be dropped from the calendar; and that the note under History 74 (European History), "This course is offered in St. Joseph's College for Roman Catholic students as a senior B option", also be omitted.

There was considerable discussion on this motion. It was pointed out that this amendment would destroy the original decision to restrict the courses, but Professor Thomas explained that those restrictions had been suggested

at a time when the department was not yet fully aware of the worth of the lecturer concerned. The courses offered were not in any way a duplication of courses given by the History department and they were both good and necessary. The department did not feel that these courses would be given in any biased way. Professor Blackley pointed out that the authorities at St. Josephs College were aware that only a person of the present lecturer's qualifications would be allowed to continue the courses should that lecturer go. It was pointed out that it was easier to drop restrictions from a course than to re-impose them once they had been dropped. The Dean pointed out an example in which this observation did not apply.

The motion was carried with a large number of abstentions.

(iv) Department of Physics

It was moved by Professor Grayson-Smith and seconded by Professor Scott that the following be approved:

41. Physical Science (3-0;3-0)
 A course designed for B.A. and B.Ed. students to give them some appreciation of fundamental ideas and methods in the physical sciences, of modern trends in this field, and of its relation to other disciplines. Illustrative material will be taken from physics, chemistry, astronomy, and geology, and the history and development of the subject will be stressed.
Note: This course is not open to first year students, and may not be taken for credit by students who have already taken Physics 1 or 36.

The motion implied a change in the note under B.A. patterns, which now would read, if the motion was passed, "A student may not include ... both Physical Science 41 and Physics 1 or 36."

Professor Grayson-Smith felt that there no longer was any point in barring students who had taken either Chemistry 1 or 35 (formerly Chemistry 40) from this course, since the amount of Chemistry contained in the course is negligible. Some 75 students, he said, were taking Physical Science 41, 45 of them in B.A. patterns and 30 of them in B.Ed. patterns.

The motion was carried.

It was moved by Professor Grayson-Smith and seconded by Professor Scott that the following changes in course descriptions also be approved:

40. Physical Properties of Matter, Heat and Sound. (New Title)

53. Electromagnetism. (New Title)

56. Electronics (2-3;2-3)
 Characteristics of electron tubes; resonant and coupled circuits; equivalent circuits; amplifiers; oscillators; modulation and detection; electronic measuring instruments; wave shaping circuits; the super-heterodyne radio receiver.
 Pre-requisite: Mathematics 40 and Physics 43 or 46.

105. Solid State Physics (2-0;2-0)

Professor Grayson-Smith pointed out that the circulated material contained a change in course description for Physics 42 (Light) but that this he wished to withdraw for the time being. It would be noted, he pointed out, that Physics 56, until now 3-3;3-3, would be, if this motion passed, 2-3;2-3. This change was suggested so that students might take both Physics 56 and Mathematics 58, but that Physics 56 would still carry sufficient weight to be used strictly as an option. The changes in Physics 40 and 53 were in the titles only, but one topic was being dropped in Physics 105 as well as the title being changed.

The motion was carried.

(v) Department of Political Economy

It was moved by Professor Hanson and seconded by Professor Wonders that Political Science 58 (Comparative Government) now carry the pre-requisite of Political Science 3.

The motion was carried.

4. Report of the Honors Committee.

Professor Grayson-Smith pointed out that while changes in the honors program in Physics were suggested in the circulated material, he wished to defer consideration of them until a later date.

It was moved by Professor Keeping and seconded by Professor Greene that the following changes approved by the Honors Committee be accepted by Council:

(a) Honors in Mathematics

First Year

Mathematics 1 or 5, Mathematics 47, Physics 40, one option from Division C, one option from Division A or B, Physical Education.

Second Year

Mathematics 40, Mathematics 41, Mathematics 45, one option from Division C, one option from Division A or B.

Third Year

Mathematics 57, Mathematics 61, Mathematics 51, or 107, two options, at least one of which must be from another department.

Fourth Year

Mathematics 102, Mathematics 51, or 107, one option from Division A or B, two options.

Note: The program selected must be approved by the Department of Mathematics. Students who hope to do graduate work in Mathematics should select three of the open options in the third and fourth years from courses offered by the department, such as Mathematics 56, 62, 103, 105, 110, etc.

Students who wish to specialize in statistics or who hope to work for the Master's degree in Mathematical Statistics should choose Mathematics 62 and 106 among their options, and are advised also to include Biometrics 103 in the Department of Plant Science.

(b) Honors in Applied Mathematics

The B.Sc. degree with Honors in Applied Mathematics may be taken by students who wish to specialize in mechanics, including hydrodynamics, aerodynamics, elasticity and relativity theory.

First Year

As above.

Second Year

As above, with Physics 46 as the C option.

Third Year

Mathematics 56, Mathematics 57, Physics 53, two options in Mathematics or Physics.

Honors in Applied Mathematics (cont'd)

Fourth Year

Mathematics 102, Physics 102, one option from Division A or B, two options from Division C.

Note: The options should include Physics 54, Mathematics 104, and Physics 104, if available.

(c) Honors in Modern Languages...

The Department offers courses in French, German, Russian and Spanish. Many different programs are possible and students should consult the Department before choosing courses. In all cases departmental approval of the program chosen is required before registration.

Students may register in Honors in the first year or may enter in the second year from the foreign language pattern.

Degrees with Honors from this Department will fall into two main groups:

- 1) Honors in Modern Languages and Literature
- 2) Honors in one modern language and an approved minor subject (as for example, Honors in French and English; Honors in French and Latin).

Programs in group (1) will require a maximum of eight courses in the language chosen as the major, four or five courses in the language chosen as the minor, and seven or eight options (one of which must be a Division C course in the first year), for a total of twenty courses. Some of the optional subjects will be integrated with the language program, while others should be general options.

These programs are recommended to students wishing to specialize in a foreign language in order to embrace an academic career, particularly to those intending to go on to post-graduate work. A reduction may be made in the number of courses in the major language, in order to provide for the study of a third foreign language by students preparing for other careers and in special cases. As a general rule, students entering with a normal matriculation will not be permitted a third modern language until they have laid a firm foundation in the first two.

Programs in group (2) will require eight courses in the major, four to six in the minor subject, and six to eight approved options, (one of which must be a division C course in the first year), for a total of twenty courses. Programs in this group will be arranged in consultation with both Departments concerned.

In addition to the courses listed here, all Honors students will take, in each year, such laboratory hours as may be deemed necessary to improve their oral proficiency.

Apart from the regular course examinations at the end of the fourth year, students may be required to take comprehensive oral examinations in the languages studied.

High School students intending to specialize in Modern Languages are advised to take as much Latin as they can in addition to their Modern Languages.

Professor Keeping stated that he wished the note attached to the Honors program in Applied Mathematics to be deleted, as it was now the wish of the department that the options should be free options. He agreed to change the program description to read "The B.Sc. degree...elasticity and the theory of relativity."

The motion was carried.

During the course of the discussion, Professor Wonders asked that consideration be given to placing the Honors Programs before the Patterns in the Arts and Science calendar. On the suggestion of the Dean, this was put in the form of a motion by Professor Wonders and seconded by Professor Hanson. This motion produced considerable discussion, including the following points: honors programs were far too specialized to turn out educated men and women; all students should be made to take four years; honors students in Arts took honors to avoid science.

The motion was, nevertheless, carried.

It was also moved by Professor Grayson-Smith and seconded by Professor Collier that the following recommendation of the Honors Committee be approved:

The Committee recommends that the Dean be empowered to adjust honors programs which are set out in detail, in consultation with the department concerned, in the case of students with good records who transfer from other faculties.

In discussion, it was noted that the Dean has been empowered by Council to make similar adjustments in the patterns, but not in Honors programs. Many Honors programs are so flexible that this power is not needed; but in others the courses are specifically laid out. Adherence to these regulations often worked a real hardship on bright students who had^{spent} their first year in unsuitable programs. The office of the Dean would, he promised, use this proposed power only for students with high standing and only in consultation with the department

concerned. The students for whom this power would be used normally would be those completing their first year in either Education or Engineering. Such a rule would not be placed in the Calendar since it might be misinterpreted by students.

The motion was carried.

d) Honors in Entomology

First Year

Physics 1 or 41, Botany 1, Zoology 1, Chemistry 40, English 5, or 2, Physical Education.

Second Year

Entomology 41, Zoology 52, Special A or B course, Chemistry 42, an option, one of the following recommended: senior Zoology, Mathematics 3 or 45, Geology 1 or 53, Botany 50, 51, 52.

Third Year

One of Entomology 62, 64, or 66, Special A or B course, three options, the following recommended: Entomology 62, 64, 65, or 66, senior Zoology, Geology 1 or 53, Botany 50, 51, 52, Genetics 51, Microbiology 60, Biochemistry 50.

Fourth Year

Entomology 62, 65, or 66; German 1b or another approved language; two options. It is recommended that these be selected from among Entomology 63, 91, 102 and the courses suggested for second and third year options.

It was explained that this program had not gone before the Honors Committee, since it had not been ready when the Honors Committee met. Professor Hocking noted that the program might be described simply as an improvement on the existing Entomology pattern. It is now possible for students in Agriculture to specialize in Entomology and this program was designed to enable students to do so in Arts and Science as well. The program contains a new course, Entomology 66, which must be approved by General Faculty Council. When that approval is obtained, Council will be asked to vote on the inclusion of that course in our calendar. The Faculty of Agriculture, on Wednesday, already approved these measures subject to favorable reception of Entomology 66 by General Faculty Council.

Professor Hardy pointed out that, in his opinion, this pattern did not allow for anything but science. Professor Hocking replied that the program contained a Special A or B course in both second and third years, English 2 or 5 in first year, and options in second and third years that were not necessarily restricted to science courses.

The motion was carried.

(e) Honors in Political Economy and Political Science

It was moved by Professor Hanson and seconded by Professor Gainer that the following changes be approved for the Honors program in Economics and Political Science:

Page 67 under "Honors in Economics" (in the current calendar)
Change "to prepare himself for final examination" to the phrase "to prepare himself for final comprehensive examinations".

under "Honors in Political Science"
In the last line, delete "(written and oral)".

Professor Hanson announced that his department wished these changes since the program was not specific enough in Honors Economics and too specific in Honors Political Science. In answer to a question, Professor Hanson informed Council that his department required, in addition to course examinations in the final year, either a written comprehensive examination or an oral examination.

The motion was carried.

5. Report of the Patterns Committee.

It was moved by Professor Greene and seconded by Professor Moore that the proposals of the Patterns Committee given below be approved:

(a) B.Sc. Pattern in Mathematics.

First Year

Mathematics 1 or 5, Mathematics 43 or 45 or 47, Chemistry 40 or Physics 40.
One of Botany 1, Zoology 1, Geography 1, Geology 1.
English 2 or 5.
Physical Education.

Second Year

Mathematics 40. Mathematics 41 or 43 or 45 or 47.
 Physics 40 or 46 or Chemistry 40 or 42.
 One of Botany 1, Zoology 1, Geology 1, Geography 1.
 Special A or B course.

Third Year

An approved Mathematics course.
 Special A or B course.
 Two options from Division C.
 An open option.

Note: This pattern includes a minimum of five Mathematics courses. Not more than two of Mathematics 43, 45 and 47 may be included.

Recommendation of the Patterns Committee:

- (i) The proposed course changes in the Mathematics pattern are recommended for approval.
- (ii) The following deletions in the working are recommended:
 Delete open ~~from~~ "an open option" (third year).
 Delete the first sentence of the Note. This sentence contains a suggestion contrary to the spirit of the sixth paragraph on page 40 of the Arts and Science Calendar. (Normally, not more than two coursesetc.)

There was some discussion on the term "open option" which Professor Keeping took to mean an option from any division. It was also noted that the pattern contained two Mathematics courses in the first year which had not hitherto been the case.

The motion to approve the new B.Sc. pattern in Mathematics, with the amendments suggested by the Patterns Committee, was carried.

(b) Regulations for B.Sc. Patterns.

It was moved by Professor Greene and seconded by Professor Thomas that the following recommendation by the Patterns Committee be approved:

"The Committee recommends that the regulation relative to the two lists of A and B courses be maintained, but queries the presence in List I of Philosophy courses."

There was considerable discussion on this motion with several members of Council questioning the reason for the lists themselves. On the recommendation of Professor Newbound, who asserted that the matter should be debated in extenso if at all,

The motion was tabled.

(c) Change of Pattern.

It was moved by Professor Davis and seconded by Professor Horton that the following changes be made in the Chemistry pattern:

For second year read:

Chemistry 42 and 58

Mathematics 40

One of Botany 1, Geology 1, Zoology 1 or Physics 43

Special A or B.

For third year read:

Chemistry 54

Physics 43 (if not taken in second year)

One of Botany 1, Geology 1 or Zoology 1 (if one of these not taken in the second year)

Special A or B course

An option

An approved C option.

It was explained that this was a small change to enable students to take Physics 43 in either second or third year. At present they are required to take it in their third year.

The motion was carried.

6. Admission of Students with Deficiencies in Matriculation.

It was moved by Professor Blackley and seconded by Professor Hardy that the following statement on matriculation replace the one now found in the Arts and Science Calendar:

The examinations for admission to the University of Alberta are the regular Alberta Grade XII Departmental Examinations held each year in June and August. Applications for these examinations should be made about two months before the date of the examinations, to the Chairman of the High School and University Matriculation Examinations Board, Department of Education, Administration Building, Edmonton.

Students whose matriculation has not been completed in the June examinations are urged to attend the Red Deer Summer Session operated by the Correspondence School Branch of the Department of Education, and to remove their deficiencies by writing the Grade XII supplemental examinations in August. High School students who are unable to obtain instruction in all the subjects of matriculation at their local High School are advised to register for such courses with the Correspondence School Branch in

Edmonton, as soon as possible after the commencement of their final High School year.

Certain courses at the Grade XII level, normally offered to matriculated students who are beginning their study of a particular subject, sometimes may be taken at the University for the purpose of removing a matriculation deficiency. With the consent of the Dean, students with good High School records may be allowed to take one such course. They must satisfy the general matriculation requirements in every other respect, and present evidence that the matriculation course needed for University entrance was not available in their school. When taken for this purpose, such a course will not count toward a University degree.

Professor Cook said that it was his understanding that a student could not register at the Red Deer Summer School without having a previous record in the course that he wished to take. The Dean promised to clarify this with the Director of the Summer Session at Red Deer.

The motion, as written above, was carried.

7. Bachelor of Music.

It was moved by Professor Eaton and Seconded by Professor Glyde that the following new degree program be approved:

BACHELOR OF MUSIC (MUS. B.)

First Year

Music 45	(Ear Training and Keyboard Harmony (Harmony (Counter point (Form and Analysis	(2-3;2-3)
Music 35	(History of Music (Choral Technique and Conducting (Instrumental Class (Brass)	(2-3;2-3)
English 2		(3-0;3-0)
Practical First Subject (Grade IX, W.B. of M.)		(1-6;1-6)
Practical Second Subject; Chorus; Orchestra or Instrumental Ensemble.		(1-6;1-6)
Physical Education		(0-2;0-2)

Second Year

Music 55	(Ear Training and Keyboard Harmony (Harmony (Counterpoint (Orchestration	(2-3;2-3)
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Second Year (cont'd)

Music 51 (History of Music (Instrumental Class (Woodwind)	(2-3;2-3)
A Division A or B course other than Music	(3-0;3-0)
Practical First Subject (Grade X, W.B. of M.)	(1-6;1-6)
Practical Second Subject; Chorus; Orchestra or Instrumental Ensemble	(1-6;1-6)

Third Year

Music 56 (Ear Training and Keyboard Harmony (Harmony (Counterpoint (Orchestration	(2-3;2-3)
Music 52 (History of Music (Instrumental Class (Strings) (Acoustics - $\frac{1}{2}$ year course	(3-3;2-3)
An approved option other than Music	(3-0;3-0)
An option	(3-0;3-0)
Practical First Subject (Grade XI - Assoc. in Music)	(1-6;1-6)
Practical Second Subject (Grade VII, W.B. of Mus.)	(1-6;1-6)
Chorus; Orchestra or Instrumental Ensemble.	

Professor Eaton explained that this pattern was designed for students who had a deeper interest in music than those who took the ordinary music pattern, and consequently it contained considerably more music. As members of Council would observe, the program provided for two practical subjects, each to be taken for three years, in one of which the students must present considerable competence on entry. The first year of the first practical subject is equivalent to Grade IX of the Western Board of Music, and the third year would qualify the student for the Associate in Music in the instrument chosen. It was also pointed out that the program, as proposed, contained six courses in the third year.

In the discussion that followed, some members of Council felt that this program was too specialized and that, like many other programs, a fourth year was needed which would give the student the opportunity to take ancillary subjects. Professor Eaton admitted that the program does not necessarily entail the taking of a science but that his department would urge students to take a science as their third year open option. English 2, he pointed out, was included

in the program of the first year.

Professor Eaton explained that the purpose of the program was to provide well-equipped teachers of music for the schools. It would be necessary, of course, for them to obtain their formal teaching qualifications from the Faculty of Education. Students with the degree in this pattern could obtain, with an additional year, the Licentiate, which is the highest diploma awarded for performance by the Western Board of Music.

The Dean asked that the abbreviated title of the degree be changed to B.Mus. to conform to the general University of Alberta system. This change was accepted by the mover and seconded.

The Dean noted that the implementation of the proposed program was dependent upon staff and space but that it would be wise to decide on it at this time. Professor Eaton felt that the space problem would be solved and he thought that the staff problem would be met.

The motion, as amended, was carried.

8. Alumni Association.

The Dean announced that he had received a letter from Mr. A. Markle, ^{Secretary} the Executive, of the Alumni Association, asking for the co-operation of the Faculty of Arts and Science in the forthcoming Varsity Guest Week-end. Mr. Markle noted that one Faculty already had made special plans for their alumni and he hoped that this could be done by the Faculty of Arts and Science. The Dean passed this matter to the departments.

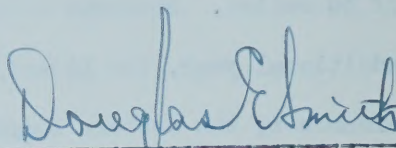
9. Scholarships and Fellowships.

The Dean announced that certain scholarships and fellowships were available from the Ontario Research Foundation. These, which were comparable

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to those of the National Research Council, were designed to provide scientists for the province of Ontario. They were tenable at any university in Ontario.

The meeting adjourned at 6:25 p.m.

A handwritten signature in blue ink, reading "Douglas E. Smith". The signature is written in a cursive style with a large, prominent "S".

ACTING DEAN

Minutes of

The 473rd meeting of the Council of the Faculty of Arts and Science

held in the Senate Chamber on Thursday, January 16, 1958, at 4:30 p.m.

Present were: Acting Dean Smith in the Chair; Professors Bhatia, Blackley, Brodie, Collier, Crosby, Davis, Duggan, Elder, Folinsbee, Garland, Grayson-Smith, Greene, Guinand, Gunning, Hanson, Hardy, Hocking, Horton, Keeping, Lowig, McIntyre, Mackenzie, Mardiros, Newbound, Pearce, Phibbs, Stelck, Thomas, Trainor, Spencer, von Richthofen, Wallace, Watson, Whyte, Wyman, and Mr. Hawes, the Assistant Registrar.

1. Minutes of the Meeting of December 2, 1957.

Professor Grayson-Smith pointed out an error in the minutes of the last meeting, in his comments on the new course Physics 99. The minutes of December 2, 1957 had stated that the course should be numbered 100 but that he did not want it to be a graduate course, whereas he had said: "I did not wish it to be given an unduly high number."

It was moved by Professor Wyman and seconded by Professor Grayson-Smith, that the minutes be adopted as amended.

The motion was carried.

2. Business Arising from the Minutes of the Meeting of December 2, 1957.

The Dean said that he had investigated summer courses for matriculation at Red Deer. The Department of Education had stated that such applications are considered on their merits and a good many students take courses at summer school which they have not taken before. Therefore, the revised paragraphs for matriculation for the 1958-59 calendar are correct.

3. Royal Commission on Education in Alberta.

The Dean announced that the main business before the special meeting of Council was to discuss what action, if any, the Faculty of Arts and Science should take in response to the request by Senator Donald Cameron, the Chairman

of the new Alberta Royal Commission on Education, for informal suggestions from interested individuals and official briefs from interested bodies.

The Faculty of Education is likely to make a formal submission on teacher training. The University itself might submit a brief. This Faculty might prepare a document which might serve as its own brief, or, if the University brief materialized, could be used as one of the bases of that brief. If a Faculty brief was decided upon, those members who dissented from all or any of the ideas contained in it would be free to state their own opinions.

After some discussion, it was moved by Professor Greene and seconded by Professor Phibbs, that Council take steps to prepare a brief either for submission to the Royal Commission or for use in the University brief to the same body.

In the discussion that followed, one view given was that the brief might represent a cross-section of the opinion of Council. Many members felt that it would be impossible for Council to agree unanimously upon a brief and that this being so, the production of a brief representing the majority opinion would almost force those who disagreed with it to prepare their own brief or briefs.

In response to queries on how such a brief would be prepared, it was suggested that individual departments might present their opinions to a small Council Committee whose job it would be to collate such opinions. Departments with much in common might present their views jointly.

In answer to questions, the Dean informed Council that the Commission's terms of reference limited it to a study of elementary and secondary educations, which included Junior Colleges, and that it would not consider the University. However, since the preparation of students for the University was a part of the High School curriculum, the University was concerned with the Commission and its findings.

The motion was carried.

It was moved by Professor Phibbs and seconded by Professor Brodie that a committee be set up to prepare a brief for submission to the Royal Commission on a basis of suggestions forwarded by Departments and individuals.

There was considerable discussion on the precise form of the Faculty brief. Some fear was expressed that its preparation would be a difficult task, particularly if Council was to take as its model the brief presented by the Senate of the University of Manitoba to the royal commission in that province. It was agreed that the form and content of the brief might be affected by the University's decision whether or not to present a University brief. If the Council brief was to be presented directly to the Commission it would, of necessity, be more elaborate than if it simply became a part of a general University brief.

In content, the brief must not merely criticize. Some positive suggestions must be advanced to correct faults noted. It should be one of the tasks of the Committee to separate criticisms based only upon unsupported opinion from criticisms based upon facts. The person who orally presented the brief would be called upon to substantiate all statements, although for some undoubted weaknesses in the present curriculum, etc. it would be hard to get statistical evidence. There was some discussion on just what sort of statistical evidence was necessary. Some were of the opinion that the Faculty could best give simply what it had discovered from its own experience. The brief should concern itself with the faults we note in the products of the present educational system.

The Dean thought that each Faculty might have an especial contribution. Briefs on the specific problems of professional careers and the relation of those problems to pre-university education could best be prepared by the professional faculties, such as Engineering. The Faculty of Arts and Science might be in the best position to deal with problems of general education. The Committee should

be left to collect opinions and then to make its own decision as to how these could be satisfactorily collated. He did not feel that this was a task for the Dean's office nor did he feel that individual suggestions would be sufficient. Most agreed that if the latter was done there would be much overlapping, and that a brief presented by the Faculty would bear more weight than a number of individual ~~suggestions would be sufficient. // Most agreed that if the latter was~~ reports.

It was noted that there has been much criticism of the present elementary and secondary educational system. Here is the chance for Council to do something constructive.

One member wished to know if it could be shown that Council was unanimous on certain basic issues. The Dean replied that no vote should be taken on such matters at this meeting, but there could be an airing of views before evidence was collected.

The Dean assured Council that the content of the brief would be referred to Council before the final version was prepared. The brief must be in the hands of the Commission by April; if the Arts and Science brief is to be used as one of the bases for a University brief, it must be ready at an even earlier date.

The motion was carried.

The best methods of collecting material, collating it and of preparing the brief were discussed by Council. It was generally held that the committee itself must explore these fields to find what was best to accomplish its task.

Council then turned to consider the composition of the Committee. In the absence of a nominating committee, the Dean pointed out that Council itself might suggest and approve the names of those that it wished to be on the Committee. However, it was moved by Professor Hardy and seconded by Professor Whyte, that the selection of the Committee be left to the Dean.

The motion was carried.

In accepting this responsibility, the Dean informed Council that the Committee he would select would represent the academic subjects of Grade XII but it would also contain Faculty members who have had experience of secondary education in Alberta, in other Canadian provinces, in the United States and in the United Kingdom.

The Dean was asked to circulate to members of Council the terms of reference of the Royal Commission, which would be most useful in drafting suggestions. This the Dean agreed to do if possible.

A number of views were suggested for consideration by the Committee. Support was given for absolute rather than relative marks in Grade XII, for more High School instruction in French, in Latin and in Mathematics, and for teachers teaching in fields in which they have specialized rather than in fields in which they are much less qualified.

In the discussion it was pointed out that the Commission's terms of reference included the possibility that the Commission might recommend the introduction of Grade XIII. Another suggestion was to make the students work harder within the present grades, which would accomplish the same purpose. They should "take their school books home earlier" since they are not being worked to capacity.

Most Council members felt that more stress should be placed in Grade XII on academic subjects, with the "frills" being left for after school activities. However, one member noted that many Grade XII students taking academic subjects have no intention of proceeding to university and this adds to the difficulty of the teachers. A suggested way out of this difficulty was special schools for gifted children.

4. Calendar Changes.

The following new courses, and course changes, were put forward for

approval on the motion of Professor Blackley, seconded by Professor Davis.

Department of Chemistry

NEW COURSES

35. Inorganic Chemistry

(3-1s-3)

Lecture: The fundamental concepts of chemistry as applied to the elements and their compounds.

Laboratory: The preparation of compounds, quantitative chemistry, and semi-micro qualitative analysis.

39. Organic Chemistry

(3-3;3-3)

Lectures: An introduction to the study of the compounds of carbon.

Laboratory: The preparation of some organic compounds.

53. Elementary Physical Chemistry

(3-3;3-3)

Lectures: Fundamental concepts of matter in relation to energy; thermochemistry; properties of gases, liquids and solids; solutions; equilibrium; phase rule; electromotive force; colloids.

Laboratory: Physical-chemical measurements.

116. High Vacuum Technique

(3-3;3-3)

Lectures: A discussion of the special techniques for the preparation of reactive compounds and for the determination of their thermodynamic and chemical properties.

Laboratory: Experiments to illustrate some of these techniques.

COURSE CHANGES

42. Add to the description: Prerequisite or co-requisite: Chemistry 35 or 40.

54. Elementary Physical Chemistry

(3-1s-3)

Course description as in previous calendar. Prerequisites or co-requisites: Chemistry 35, Physics 40 or 41, Mathematics 40.

Text: Millard - Physical Chemistry for Colleges.

Department of Zoology

COURSE CHANGES

52. Change title from Comparative Anatomy of Invertebrates to The Invertebrates.

Change description to read:

A survey of the invertebrates with emphasis on functional anatomy and the

evolution of organ systems.

Text: Borradaile et al., Invertebrata, 3rd edition.

Prerequisite: Zoology 1.

110. Change title from Principles of Evolution to Mechanisms of Evolution.

53. General Embryology

Prerequisite: Zoology 1 and Zoology 51; Zoology 51 may be taken as a co-requisite with the permission of the instructor.

It was moved by Professor Grayson-Smith and seconded by Professor Scott, that the following course be approved:

Department of Physics

COURSE CHANGE

42. Optics and Mechanics

(3-2;3-2)

Geometrical theory of optical instruments; simple wave theory of light and sound.

Statistics, dynamics of a particle and of a rigid body.

Prerequisites: Physics 40 or 21; Mathematics 1, 2 or 5.

There was some objection to this course on the grounds that the mechanics portion of it would not serve as a sufficient prerequisite for Mathematics 56, a course which may be taken by students in the honors program in Physics. The Mathematics Department agreed, nevertheless, that this new course should be given a trial.

The motion was carried.

It was moved by Professor Collier, and seconded by Professor Gunning that thought should be given to possibilities for streamlining meetings of Council. Professor Collier held that much of the discussion on new course changes could be fully appreciated and understood only by those members of Council directly concerned.

The motion was carried.

It was moved by Professor Elder and seconded by Professor Watson that the following new course in English be approved:

Department of English

New Course

71. Old English and the History of the Language (4-0;4-0)

A study of selected Old English texts, together with a history of the language to the present day.

The motion was carried.

It was moved by Professor Folinsbee, and seconded by Professor Stelck that the following course be re-instituted, with some changes in hours and description, as given below:

Department of Geology

NEW COURSE

101. Advanced Structural Geology (0-0;3-0)

Advanced structural topics will be treated on a seminar bases.
Text: de Sitter: Structural Geology.

The motion was carried.

5. Program and Pattern Changes.

It was moved by Professor Grayson-Smith and seconded by Professor Scott that the following changes be approved in the Honors programme in Chemistry, the Honors programme in Physics, and in the Physics pattern:

Program in Honors Chemistry

First Year: Chemistry 35, Chemistry 42, Mathematics 1 or 5, Physics 35, English 2 or 5, Physical Education.

Second Year: Chemistry 54 and 58, Mathematics 40, Physics 43, an option from Division A or B.

Third and Fourth Years: The equivalent of ten full courses will be required. German 1b, Chemistry 102, Mathematics 52, ⁵¹ must be included. The equivalent of 5 full courses must be chosen from the Department of Chemistry. Two options are permitted. All programs must have the approval of the Chemistry Department.

Program in Honors Physics

First Year (Pre-Honors): Physics 40, Mathematics 1, Mathematics 47, Chemistry 40, English 2 or 5s, Physical Education.

The First year of ~~the~~ Engineering or the first year of the Physics pattern in the general course may be accepted in consultation with the department.

Second Year: Physics 42, Physics 46, Mathematics 40, a foreign language (German 1b or Russian 1b are recommended), an option from Division B.

Third Year: Physics 53, Physics 54, Physics 56, Mathematics 48, Mathematics 56 or an equivalent course, Mathematics 57 ~~and 58~~.

Fourth Year: Physics 55B, Physics 101, Physics 102, Physics 104, two of Mathematics 102, Physics 60, Physics 99, Physics 105.

Other options in the Fourth Year can be arranged in special cases.

Students are also expected to take part in the weekly Physics Colloquium.

At the end of the Fourth Year there will be, in addition to the regular examinations, in each lecture course, a written comprehensive examination on the work of the whole course.

Physics Pattern (Changes)

Second Year: Physics 42 and 46; Mathematics 40; one of Botany 1, Zoology 1, Geology 1, Chemistry 42; special A or B course.

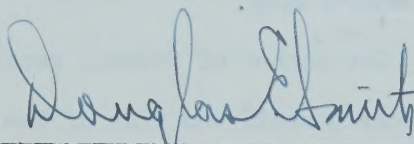
Third Year: Two of Physics 50, 56, 58, 60; Chemistry 54; Mathematics 57; special A or B course; an option.
(Delete note at top of prescription.)

Professor Horton asked if Mathematics 57 might be allowed as an alternative to Mathematics 58 in the third year of the honors Physics Program.

With this amendment, the motion was carried.

The Dean announced that he had material on graduate fellowships offered by the International Nickel Corporation. This was available at the Arts and Science office for all those interested.

The meeting adjourned at 5:50 p.m.



 ACTING DEAN

The minutes of the 474th meeting of the Council of the Faculty of Arts and Science held in the Senate Chamber, Monday, February 3, 1958 at 4:30 p.m.

Present were: Acting Dean Smith in the Chair; Professors Bhatia, Blackley, Brodie, Collier, Cormack, Crighton, Crosby, Davis, Davy, Elder, Folinsbee, Fostvedt, Gainer, Greene, Hanson, Hocking, Horton, Jacka, Keeping, Kreisel, Lowig, McIntyre, Mardiros, Moore, Ryan, Salter, Scott, Spearman, Stelck, Trainor, von Richthofen, Wallace, Whyte, Wonders, Wyman, Graham, and Mr. Hawes, the Assistant Registrar.

1. Minutes of the Meeting of January 16, 1958.

It was moved by Professor Brodie and seconded by Professor Newbound, that the minutes of the meeting of 16th January be adopted as circulated. The Department of English pointed out that English 71, described in the minutes as a new course, was an old course whose description had been changed by Council.

The minutes as amended, were carried.

BUSINESS ARISING FROM THE MINUTES

2. Resolution of the School of Commerce (Minutes of 4th November, 1957.)

Council considered the resolution of the School of Commerce Council recommending that the rule requiring every student to spend one regular session in attendance at the University be rescinded.

The Dean informed Council that this regulation had been passed in 1939 and noted that it did not apply to school teachers. The regulation had been considered by the Senate at a recent meeting. While the majority opinion of the Senate had been in favour of rescinding the regulation, one member had argued against such a step.

One member of Council recalled that the regulation had been passed in 1939 because Council was then of the opinion that Summer and Evening Division courses were "second best" courses. It was felt that all students should have at least the experience of one full session at the University.

It was moved by Professor Hanson, and seconded by Professor Gainer, that a committee be appointed to look into the application of this regulation.

In the discussion which followed, some members felt that to refer the matter to a committee was simply another postponement of Council's decision. One stated that in his opinion, Summer School and Evening Division courses were just as good as their regular session equivalent and that, for the University to offer degrees by means of such courses only, would mean that it was fully meeting a real public need. A university that insists upon a year's residence is not keeping pace with the times. Another speaker noted that, while he was sympathetic to the aims of the School of Commerce, this University had developed as a daytime university. For the University to offer complete degree programs at night would require changes that we cannot make at this time. Without increased staff, a good deal of expense, etc., such a venture would be detrimental to the day courses and staff. One Council member stated that he knew from his own experience that a student could not possibly give his best to courses taken in the Evening Division after doing a full day's work.

In answer to questions, Professor Hanson stated that he would like to see the report of the committee mentioned in his motion, given to Council by the end of term, and that the committee would investigate the needs of various classes of students, and the effect upon them of the application of this regulation. It was felt that the report of the committee should be circulated before the meeting to reduce the area of debate upon the resolution of the School of Commerce.

The Dean suggested that the committee should consider maintaining the existing rule, rescinding the existing rule for Commerce students only or rescinding the rule completely.

The motion was carried.

Council asked the Dean to select members for this committee.

3. Recommendations of the Patterns Committee regarding Special A and B courses for B.Sc. students.

Council

At the/meeting of December 2, 1957, the Patterns Committee recommended that the Special A and B courses for B.Sc. students, separated into List I and List II, and from each of which such students must select one course, be maintained. It questioned, however, the presence of Philosophy 40, 54 and 60 in List I.

The Dean stated that many departments approve programs in which both these options come from one list. This causes a good deal of trouble. If Council approved the recommendation, he promised that the Arts and Science office would do all in their power to enforce the regulation with strictness.

In the discussion that followed, the differences between A and B courses were examined. Some felt that the division between the two was artificial. Others thought that, while A and B divisions were useful distinctions for B.A. students, they should not be used for those in B.Sc. programs. Professor Blackley stated that most students wish to take options from B (List II) rather than A options (List I).

It was again moved by Professor Greene, and seconded by Professor Thomas, that the recommendation of the Patterns Committee to maintain the two lists be adopted.

The motion was defeated.

It was moved by Professor Hocking, and seconded by Professor Horton, that the lists of Special A and B courses be abolished and that all A and B courses be open as options to B.Sc. students.

Supporters of this motion thought that most A and B courses were now open to B.Sc. students. However, it was pointed out that if an A or B senior course had a prerequisite this was not true. Junior A and B courses (except those in foreign languages) which might serve as prerequisites to others were not offered as Special A and B courses to B.Sc. students. It was finally suggested that the lists might be maintained ~~but~~ only to suggest courses for students to take.

The motion was defeated.

By defeating these motions, Council adopted the only other alternative: List I and List II would be amalgamated and B.Sc. students must now take two courses from the new combined list.

4. Committee to Prepare the Brief for the Royal Commission.

The Dean announced the composition of the committee he had selected to prepare the Faculty brief for the Cameron Commission. It was as follows: Professors Greene, Brodie, Elder, Farnham, Miller, Morrison, Newbound, Penelhum, Wonders, and Wyman. To this Committee, he had distributed copies of the terms of reference of the Commission.

He noted that the Arts and Science brief should be in the hands of the Royal Commission by April 15. This meant that the Committee must have the brief finished before April 7 for the approval of Council, unless there was an urgent need for an extension of the preparation time allowed. All opinions and recommendations should be forwarded to Professor Greene, the Chairman of the Committee, as soon as possible.

5. Streamlining the Business of Council.

Many members of Council have objected to the time spent by Council on details and routine matters.

It was moved by Professor Collier and seconded by Professor Keeping that Council appoint an Executive Committee to speed up routine matters.

In the discussion that followed, many ideas were considered which might speed up meetings of Council. An objection to present methods was that, as a result of them, meetings were often so long and uninteresting that many members of Council stay away and thus deprived Council of their advice.

It was suggested that there be an Arts Council and a Science Council;

that specified powers be delegated by Council to an Executive Committee or that a committee process routine material for Council; that "senior clerks" be appointed in the Dean's office to do all routine work and make all routine decisions, leaving the Dean free to make policy decisions; that an Executive Committee be appointed to meet regularly so that it would be necessary for the full Council to meet only twice a year, in the Spring and in the Fall; that Council agenda be divided into routine and unusual business, with the first being passed all at once.

The Dean pointed out that, while an Executive Committee would be useful no Faculty Council could delegate its powers to such a body. Objection to the twice-yearly meetings of Council was taken by some members on the grounds that junior members of staff would be deprived of valuable experience and training gained at the regular monthly meetings now held.

Since it was obvious that Council spoke with many voices, with the agreement of the mover and seconder, the motion was tabled.

NEW BUSINESS

6. The Dean apologized to Council for his failure to mention, at an earlier date than the previous meeting, the death of Professor William Rowan, which occurred on June 30, 1957. Professor Salter then moved that the following tribute to Professor Rowan be recorded in the minutes:

William Rowan came to the University of Alberta in 1920, as Associate Professor, to found the Department of Zoology; and served the University with distinction for thirty-six years.

He was born of Anglo-Irish stock at Basle, Switzerland, in 1891. In 1908 he came to Canada seeking adventure, and worked as a cowboy on the western plains. In the first month of the First World War he returned to the Old Country and enlisted in the London Scottish. The fact is significant of his life-long eagerness to "do his bit".

During the interval between his honorable discharge from the Army in 1916 and his coming to the University of Alberta, Dr. Rowan studied at University College, London, and at the Slade School of Art, and taught for a year at the University of Manitoba. He was an accomplished artist, musician, and lecturer.

As a zoologist, Dr. Rowan will be remembered for his studies of the migrations of birds and of the cyclical variations in the numbers of certain birds and mammals of this Continent. He received his D.Sc. from the University of London in 1929, and was elected a Fellow of the Zoological Society of London in the same year. In 1934 he was elected Fellow of the Royal Society of Canada, and in 1946 was awarded the Flavelle Medal by that Society in recognition of his scientific work.

One might almost say that Dr. Rowan's engine was too big for his beam. He was full of plans and projects, an eager and zestful worker. He had a boyish and infectious enthusiasm with which he inspired generations of students and laid the foundations for an Edmonton Zoological Garden.. His flair for getting the whole Province interested in his work and co-operating with him, was amazing. To the very end he remained energetic, full of projects for further study, keen, and lovable; and when he died on June 30, 1957, there were many, many persons in Edmonton, in Alberta, and elsewhere who felt that a shadow had fallen upon the world. He served his time and his generation to his utmost capacity, and he served them well.

The motion was carried by a unanimous standing vote of members of Council.

7. Standing for student selected for Brussels International Exhibition.

The Dean informed Council that Miss Karen Freda Hansen, a third year honors student in Foreign Languages, had been one of those selected by the Canadian Government to serve in the Canadian pavilion at the Brussels International Exhibition.

It was moved by Professor Greene, and seconded by Professor Kreisel that Miss Hansen's professors be empowered to determine her final marks by whatever means seemed most appropriate in each course and that she be permitted to register late, without penalty, for the 1958-59 session.

After a discussion of whether or not Miss Hansen's marks, determined in this manner, would enable her to be considered for prizes and scholarships, it was moved by Professor Salter and seconded by Professor Hocking that the motion of Professors Greene and Kreisel be amended so that the grades obtained by Miss Hansen in the manner noted be allowed as full equivalents for all purposes to grades obtained in the usual way by final examinations. The mover and seconder ~~of~~ the original motion agreed.

The motion was carried as amended.

8. Special Case (Miss Elizabeth Atkinson).

The Dean brought forward the petition of Miss Elizabeth Atkinson, a student at the University of Alberta in Calgary, to complete her B.A. in Calgary.

It was moved by Professor Graham, and seconded by Professor Salter, that Council give favourable consideration to this petition.

Professor Graham explained that Miss Atkinson transferred from Education to Arts and Science with three advance credits. She has taken two subjects at Summer Sessions and is now taking five others at Calgary. She wishes to complete the requirements of her program through Summer Session, Evening Division and late day courses at Calgary.

In support of Miss Atkinson's petition, Dr. Graham explained that very serious domestic difficulties prevented Miss Atkinson from finishing her final courses at Edmonton. In his opinion, Miss Atkinson was a good student and hoped to do graduate work in English. As a precedent for favourable consideration of the petition before Council, he cited the case of Miss Laura May Stillings.

The motion was carried.

9. Request for a Change in the Entomology Program.

It was moved by Professor Hocking, and seconded by Professor Collier that the following changes be made in the Entomology Pattern:

Second Year:

For a senior Entomology course substitute Zoology 52.

For the last item, substitute: An option, one of the following recommended: a senior Zoology course, Mathematics 3 or 45, Geology 1 or 53, Botany 50, 51, or 52, Genetics 51.

Third Year:

For: A Senior Entomology Course substitute: One of Entomology 62, 64, or 66.

For the last two items, substitute: Three options, the following recommended: Entomology 62, 64, 65 or 66, a senior Zoology, Geology 1 or 53, Botany 50, 51, 52, Genetics 51, Microbiology 60, Biochemistry 50.

Some members felt that the last change eliminated the open option of third year and thus destroyed the whole pattern concept. Professor Hocking replied that any student was free to choose one or more of the three courses as freely as an open option; and to make this clear, he was quite agreeable to changing "the following recommended" to "the following suggested".

The motion was carried.

10. Final Examinations in Courses numbered 100 or over.

It was moved by Professor Grayson-Smith, and seconded by Professor Scott that the Physics department be empowered to dispense with the formal final examination in certain Physics courses numbered in the 100s.

An amendment to this motion was moved by Professor Blackley and seconded by Professor Wonders that departments concerned be allowed to dispense with the formal final examination in all courses numbered in the 100s, upon notice to the Registrar.

The amendment was carried.

11. Request for a change in the Chemistry Pattern.

It was moved by Professor Davis, and seconded by Professor Whyte, that the following change in the Chemistry Pattern be approved:

First Year:

Change Chemistry 40 to 35. Change Physics 40 to 35.

Second Year:

Replace Chemistry 58 with Chemistry 53 or 54.

Third Year:

Replace Chemistry 54 with Chemistry 58.

This change was recommended, it was explained, to facilitate transfers from the second year of the Chemistry pattern to the third year of the Honors Chemistry program.

The motion was carried.

12. Special Case of Mr. Gordon R. Neufeld.

It was moved by Professor Keeping, and seconded by Professor Scott that Mr. Gordon Neufeld, a student in first year Medicine, be allowed to take Mathematics 5 at the 1958 Summer Session extra-murally.

It was explained that Mr. Neufeld, at the end of his second year in Medicine, wished to break his course to take a B.Sc. in Physics, which would assist him in post-graduate medical research. He might see his Summer School instructors once or twice, if possible, and perhaps even manage to write term tests, but he would work on his own.

In the discussion which followed, it was noted that permission for extra-mural work was given to undergraduates only in unusual circumstances. To this Professor Scott replied that he felt the circumstances were unusual: only if Mr. Neufeld was given the permission he desired, could he attempt what Professor Scott considered to be a very legitimate and commendable enterprise. He could not take the course in the ordinary way at Summer School since financial necessity made it imperative that he work next summer.

One member of Council objected to the general idea on the grounds that a precedent was being created, if the motion passed, by means of which Summer School instructors might be overloaded with extramural students. It was also pointed out that in one case where a student had been allowed to take Mathematics 5 extramurally, although not for credit but as a prerequisite for Mathematics 40, he had obtained a very low passing grade although in other courses he was considered a very brilliant student.

The motion was carried.

The meeting adjourned at 6:20 p.m.

Douglas Edmitch

ACTING DEAN

The minutes of the 475th meeting of the Council of the Faculty of Arts and Science held in the Senate Chamber, March 3, 1958, at 4:30 p.m.

Present were: Acting Dean Smith in the Chair; President Stewart, Professors Allen, Blackley, Brodie, Collier, Collins, Cook, Crosby, Davis, Duggan, Elder, Fostvedt, Gainer, Garland, Goodale, Grayson-Smith, Greene, Gunning, Hanson, Harrold, Horton, Jones, Keeping, Kreisel, Lowig, McIntyre, Mardiros, May, Moore, Newbound, Salter, Stelck, Thomas, Trainor, Wallace, and Mr. Cairns, the Registrar.

1. Minutes of the Meeting of February 3, 1958.

It was moved by Professor Collier, and seconded by Professor Moore, that the minutes of the last meeting be approved as circulated.

The Dean noted, in the minutes of January 16, an error regarding the substitution of Mathematics 57 for Mathematics 52 in the Honors Chemistry program. This error had been pointed out at the close of the last Council meeting and the official minutes had been corrected. The Dean asked if Council would now approve the minutes of January 16 with this correction.

The motion was carried, and the correction of the error in the minutes of January 16 was approved.

2. Curriculum of the School of Commerce.

The President attended the meeting to speak to Council on the subject of the revised curriculum of the School of Commerce.

President Stewart informed Council that the proposed program was a compromise. Great differences of opinion had been encountered, ranging from the desire to give a very general type of program to the wish to give a very specific business type of training.

Two common years were envisaged, with three possible routes in the third year. One of these routes was for the professional accountant, the second concentrated upon Economics, while the third was a route designed to give a general type of business preparation.

A sixth course had been added to the first year: six courses in the first year were not unusual in programs preparing students for the business world. A course in Psychology had been substituted for a first year open option during the debate in the Council of the School of Commerce; it was hoped that the courses of second and third year would emphasize the human element and profit from this course. He thought that while the use of the case method of instruction had a distinct place in such a program, it should be introduced gradually to the student at the undergraduate level.

In the past, the content of the B.Comm. program had been such that it would excuse students in chartered accountancy from the intermediate C.A. examinations and a certain amount of articling time. This idea he did not wish to see undermined in the new program.

It was moved by President Stewart and seconded by Professor Hanson that Council approve the following program for the School of Commerce:

BACHELOR OF COMMERCE

PATTERN OF 3-YEAR PROGRAM

First Year

Commerce - Survey: Introduction to Business
Accounting 1
Economics 1
Mathematics 42
English 5
Psychology

Second Year

Commerce - Administrative Practices
Commerce - Marketing
Accounting 52
Economics 66
Commercial Law
Open Arts Option

Third Year

Commerce - Business Finance
 Commerce - Business Policy
 Commerce - Production

(a)

Two approved courses for students proceeding to Professional Accounting; Probably two Accounting Courses.

(b)

Two approved courses for students in General Business program; Content to be determined later.

Open Arts Option

(c)

Two approved courses for students wishing more Economics; to be selected by the student from a number of Economics courses.

In the discussion which followed some criticism was levelled at the proposed program since it contained very little of what might be termed "General Education". The President admitted that this point had produced one of the major differences of opinion. Nonetheless, he contended that the first year did contain substantial elements of "General Education" and that a student who succeeded in passing it would have the equivalent of the normal first year in Arts and Science. He did not deny that the proposed program was more specialized than the old.

Certain points in the actual programme were clarified. The Psychology course of the first year was unspecified as the Department of Philosophy and Psychology was considering the possibility of a new course designed especially for the program. Mathematics 43 in the old program had been dropped in the new and the content of the Business Finance course of the third year would contain part of the content of the superseded course. The program called for English 5s but this, at the moment, was impossible for students taking their first year at Calgary; they would take English 2 in place of English 5s. A good deal of the subject matter of Economics 69 had been handed over to Business Administration.

The wisdom of making Accounting 52, a very heavy course, a part of a six-course year was questioned. The President replied that six courses was normal for the year in question. The distribution of courses in the old Commerce program had been 5-6-5, the new one would be 6-6-6.

The President concluded by informing Council that, at the moment the great need was to have an approved program, even if there might be amendments to such a program later. The university could then approach possible new directors with the program that, if appointed, they would be expected to implement.

The motion was carried.

3. Streamlining Council Procedures.

Council turned to a consideration of Professor Collier's motion that Council appoint an Executive Committee to speed up routine matters.

It was generally felt by Council that present administrative procedures had been intelligently conceived for the efficient running of a small university. Now, with the university rapidly increasing in size, too many precious hours were wasted by staff members voting on subjects which they, in many cases, did not properly understand. While it was felt desirable that Council should retain control over all matters now within its jurisdiction, some method should be devised to lighten Council's burden.

The Dean felt that much staff time could be saved by the setting up of a small committee of senior members who could review routine matters that require Council's approval. When such a review had taken place, the material considered could be presented for Council's consideration in omnibus motions. Any matters within such motions felt by Council to be contentious could be removed for separate consideration.

As to a proposal that he work with ad hoc committees composed of himself and the Department head concerned, the Dean pointed out that such a practice could lead to variations in policy. Many routine matters do set precedents and policy, and affect more than one department (e.g. course changes). Council, a broadly representative group, should set policy within which the administrative officers could work. Difficulties that might arise could be ironed out by a standing committee saving Council much time at comparatively little sacrifice.

It was suggested that some delegation of authority was absolutely necessary, even though all agreed that the Faculty must continue to possess the final authority in all matters which concerned it. Too much time was being demanded of the academic staff for administrative matters, time much better spent on research.

Professor Collier suggested for the consideration of Council, a Curriculum Committee, as used at other universities, for dealing with new courses, pattern changes, etc. He also again emphasized a previous suggestion for the appointment of an administrative assistant for each dean, perhaps an Assistant Registrar, who could handle much routine business on a full-time basis.

Professor Gunning felt that a thorough study of university administration as a whole ought to be undertaken by the proper authorities. The Registrar noted a recent suggestion for an Administrative Council which could deal with many administrative problems. As for Professor Gunning's suggestion, he felt that the proper place for a beginning might be the Deans' Council which might pass its findings to the Board of Governors. Some Council members did not like the notion of yet another administrative "layer" that the Registrar's observation would imply.

Since some of Council favoured ad hoc committees to assist the Dean rather than the notion of an executive committee (ultimately responsible to Council) it was moved by Professor Jones and seconded by Professor Blackley, that an amendment be made to Professor Collier's motion, that the Dean be instructed to speed up Council meetings by the annual appointment of a number of ad hoc committees which would be standing committees to deal with specific problems as they arise.

The amendment to the motion was defeated.

The motion was carried.

In a discussion arising out of the last motion, it was moved by Professor Gunning and seconded by Professor Hanson that the total organization of the university ought to be examined by the appropriate authorities.

Council felt that any changes which might arise from such an investigation ought to be changes within the existing framework of the University Act. If members of the teaching staff would be expected to do a major proportion of the work involved in such an investigation, one member of Council wondered if it would not be wise to ascertain first the general stand of President Stewart before putting such a motion forward to General Faculty Council. The work would be a waste of time if President Stewart was not favourably disposed towards the basic notion involved.

The motion was carried and the Dean undertook to discuss the motion with the President.

4. Calendar Changes and New Courses.

(a) The Dean brought forward the list of calendar changes which had been discussed at the Council meeting of February 3. These changes had been discussed but, through some oversight, not formally approved.

It was moved by Professor Blackley and seconded by Professor Brodie, that the following list of calendar changes be approved:

NEW COURSES

Department of Entomology

66. Insect Physiology (2-4;2-4)
 Life processes illustrated by insects with emphasis on those peculiar to them and their relatives.
 Textbook: Wigglesworth, The Principles of Insect Physiology.
 Prerequisite or co-requisite: Entomology 40 or 41, 64 desirable.
 Permission of the instructor is required for registration.

COURSE CHANGES

Department of Entomology

64. Change title from Morphology and Physiology to Morphology.
 Change hours from (0-6;2-4) to (1-5;1-5).

64. Change description to read:

A detailed study of the structure of insects from the comparative and functional viewpoints.

Department of Modern Languages.

54. Change title from Literature of the Eighteenth Century to German Literature of the Eighteenth Century.

57. Change title from Literature of the Nineteenth Century to German Literature of the Nineteenth Century.

72. Change description to read:

The purpose of this course is to trace the important literary movements since Naturalism, using a number of representative authors of each period. Reading and interpretation of outstanding dramas, novels, short stories and poems.

- 115 (c) Change description to read:

The German Roman from Johann Fischart to Jacob Wassermann.

Department of Philosophy and Psychology (Psychology)

113. Add "Prerequisite: Psychology 57".

Department of Mathematics.

1. Elementary Mathematics

Change hours from (5-0;5-0) to (3-2;3-2)

Change course description to: Review of plane trigonometry. Trigonometrical identities and equations. Rates of change. Differentiation and integration of simple functions. Applications. Analytic geometry of the conic sections. Exponential, logarithmic and trigonometric functions.

3. Introduction to Biometrics

Add to course description: The number system.

5. Elementary Mathematics

Change course description to:

As Mathematics 1, with addition of plane trigonometry and solution of triangles. (Same texts)

This course is intended for students who wish to have a basic course in Mathematics, acceptable as a prerequisite for Mathematics 40, but who do not have Mathematics 31 of High School.

40. Calculus and Analytical Geometry

Add to course description: Multiple integrals. Elements of differential equations.

Delete from course description: Differentiation of trigonometric, exponential and logarithmic functions.

48. Statistical Treatment of Experimental Data

Delete from course description: "Distribution of the sample mean and standard deviation."

57. Advanced Calculus
Delete from course description: Determinants and linear equations.
Change in course description: For "Space geometry and vectors," read "Space Geometry and vector analysis."
102. Theory of Functions of Real Variables
Change in course description: For "The Laplace transform" read "The Laplace and Fourier transforms."
107. Modern Algebra
Change in prerequisite from Mathematics 50 to Mathematics 47 or 50.
39. Calculus and Space Geometry
Change hours from (3-0;2-0) to (2-0;2-0)
61. Foundations of Analysis
Change course description to read: An introduction to such topics as set theory, cardinal and ordinal numbers and transfinite induction; integers, rational numbers, real numbers and complex numbers; Stieltjes integrals, measure theory and Lebesgue integrals; metric spaces.
Change prerequisite or co-requisite to read: "Mathematics 47 or 50, and 57.

Department of Physics

53. Electromagnetism

Change course description to read: Description of electrostatic and electromagnetic fields using vector methods; potential theory; Maxwell's equations, electromagnetic waves and guided waves; electrical measurements, introduction to microwave measurement techniques.
Prerequisite: Physics 46 or 43
Prerequisite or co-requisite: Mathematics 57.
101. Thermodynamics and Kinetic Theory
Change description to read: Principles of thermodynamics with physical applications, kinetic theory, Boltzmann, Fermi-Dirac and Bose-Einstein statistics.
Change prerequisites to read: Physics 43 or 46, Mathematics 40-52 or 57.
100. Physical Optics
Change prerequisite to read: Physics 42 and 53, Mathematics 57.
102. Mathematical Physics
Change description to read: This course is intended as an introduction to the principal mathematical methods of dealing with the scalar and vector fields of Physics. Topics include the Sturm-Liouville theory of eigenvalue problems, matrices, partial differential equations, operational methods and Laplace transforms, Fourier transforms, Green's functions, integral equations and the non-linear equations of hydrodynamics.
43. Light, Electricity and Magnetism
Change hours from (3-2;3-2) to (3-3/2;3-3/2)
112. Radiation Physics
Change hours from (3-0;3-0) to (2-0;2-0)
42. Optics and Mechanics
Add co-requisite: Mathematics 40.

54. Molecular, Atomic and Nuclear Physics
Delete from prerequisites: Mathematics 40.
59. Introduction to Physics of the Earth
Change in course description: A course designed to follow Physics 44 and introduce physical methods of studying earth structure. Principles of elasticity and gravitation. Physical properties of the earth as indicated by earthquake waves, gravity, electrical and magnetic measurements. Heat flow in the earth's crust, radioactivity of rocks.
Change prerequisites to read: Physics 44, Mathematics 39.
104. Quantum Mechanics and Nuclear Physics
Change prerequisites to read: Physics 54, Mathematics 56 and 57.

Department of Chemistry

35. Inorganic Chemistry
Add prerequisite: Chemistry 1 or its equivalent
39. Organic Chemistry
Add prerequisite: Chemistry 1 or its equivalent.
42. Organic Chemistry
Change prerequisites to read: Chemistry 1, 35, or 36 or 40.
52. Organic Chemistry
Change prerequisites to read: Chemistry 35, 36 or 40 and 39 or 42.
54. Elementary Physical Chemistry
Change prerequisites to read: Chemistry 35 or 36 or 40; Physics 35 or 36 and Mathematics 40.
53. Elementary Physics Chemistry
Add prerequisites: Chemistry 35 or 36 or 40; Physics 35 or 36 or 40 or 41, Mathematics 1.
104. Advanced Physical Chemistry
Add prerequisite: Chemistry 54.
Prerequisite or co-requisite: Mathematics 52 or 57.
115. Advanced Thermodynamics
Add prerequisite: Chemistry 54
116. High Vacuum Technique
Add prerequisite: Chemistry 54.

The motion was carried.

(b) Department of Geology.

It was moved by Professor Stelck and seconded by Professor Gainer that the following changes be approved in the Geology honors program and the Geology pattern:

Pattern: Geology 58 to replace Geology 55 in third year.
Honours: Geology 58 to be interchanged with Geology 55 in third & fourth years.

The motion was carried.

(c) Department of Physics

It was moved by Professor Grayson-Smith and seconded by Professor Newbound that the following two new graduate courses in Physics be approved by Council, to be offered if staff is available and there are sufficient students wishing to take them:

113. The Production and Optics of Free Elementary Particles and Ions (2-0;2-0)

C.E. Challice

(To be offered in Calgary)

114. Cosmic Radiation (2-0;2-0)

B.G. Wilson

(Offered in Calgary)

The motion was carried.

5. Special Cases.

Miss Barbara Appolony.

Miss Barbara ^{Appolony}~~Appelony~~, who registered as a special student in Music 41 at the Banff School of Fine Art before her matriculation results were known, requested that her course in Music 41 be accepted for university credit. Council agreed to grant Miss ^{Appolony}~~Appelony~~'s request.

Father Terence Tobin

Father Terence Tobin, in the third year of the Honors Mathematics program, petitioned Council that he be transferred to the third year of the Mathematics pattern since he would be unable to return to the university, his services being required as a teacher.

It was moved by Professor Keeping and seconded by Professor Lowig, that Father Tobin's petition be granted.

The motion was approved.

Miss Nadia Hochachka

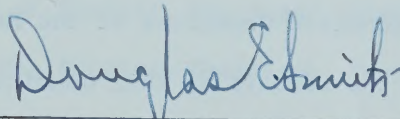
Miss Nadia Hochachka, who applied for a NFCUS exchange scholarship to be tenable at the University of British Columbia, wished Council's approval to hold such a fellowship in the third and final year of her university program if such a fellowship was obtained.

It was moved by Professor Blackley and seconded by Professor Gainer that this petition be approved in the form of a recommendation to be placed before General Faculty Council, since by a ruling of that council, students must spend their final year at the University of Alberta to obtain an Alberta degree.

The motion was carried.

6. The Dean informed Council of the difficulties encountered by Mr. Morgan, the Assistant to the Registrar, in finding lecture room space for the 1958-59 session. Certain departments had rooms set aside for their specific use which, with their consent, might be used either full time or in part to assist in solving the problem. Such departments should review their needs and, if they could offer any assistance, communicate directly with Mr. Morgan.

The meeting adjourned at 6:05 p.m.

A handwritten signature in blue ink, reading "Douglas Smith". The signature is written in a cursive style with a horizontal line underneath the name.

ACTING DEAN

The minutes of the 475th meeting of the Council of the Faculty of Arts and Science, held in the Senate Chamber, April 7th, 1958, at 4:00 p.m.

Present were: Dean Smith in the Chair; Professors Allen, Bhatia, Blackley, Brodie, Campbell, Collier, Cormack, Crighton, Crosby, Davis, Davy, Duggan, Elder, Folinsbee, Garland, Godfrey, Goodale, Grayson-Smith, Guinand, Hocking, Horton, Jones, Keeping, Kreisel, Lowig, Mackenzie, Mardiros, May, Morrison, Mueller, Newbound, Phibbs, Salter, Schiff, Scott, Spearman, Starchuk, Stelck, Thomas, Trainor, Spencer, Von Richthofen, Wallace, Whyte, Wonders, Wyman, and Mr. Cairns, the Registrar. Present also on the invitation of the Dean were Professors Common, Farnham, Penelhum and Rheinhold.

1. Minutes of the Meeting of March 3, 1958.

It was moved by Professor Keeping and seconded by Professor Wonders, that the minutes of the meeting of March 3 be approved as circulated.

The motion was carried.

2. The Executive Council of the Faculty of Arts and Science.

The Dean reminded Council that, while they had approved the setting up of an Executive Committee at the March meeting, no provision had been made for appointing the members of this committee. He suggested that at least three senior members of Council be asked to meet with Professor Blackley and himself to act as a nominating committee. This would not preclude nominations from the floor.

It was moved by Professor Scott, and seconded by Professor Brodie, that a nominating committee be set up for the Executive Committee in the manner suggested by the Dean.

Professor Salter suggested that this motion be amended to empower the nominating committee to consider ways and means of assisting the Dean, and to define the precise duties of the Executive Committee.

This amendment was accepted by the mover and seconder of the motion, as well as one giving the Dean power to select senior members of Council to compose the nominating committee.

The motion, as amended, was carried.

3. Special Case (Miss Nadia Hochachka).

The Dean announced to Council that General Faculty Council permitted Miss Nadia Hochachka to take her final university year at the University of British Columbia.

4. Patterns Committee.

The Dean informed Council that the terms of all the members of the Patterns Committee had expired unnoticed. He had approached several members of Council to ascertain their willingness to serve on this Committee and Professor Greene had agreed to act as Chairman again if such was Council's will. Professors Wyman and James had similarly agreed to act if nominated.

It was moved by Professor Newbound, and seconded by Professor Von Richthofen, that the Patterns Committee be composed of Professors Greene, Wyman and James, with the first acting as Chairman.

The motion was carried.

The Dean expressed the thanks of Council, for their services on the Committee, to the two retiring members of the Patterns Committee, Professor Brown and Thomas.

5. Special A or B Options for Science Students.

The Dean noted that Council's decision to combine the old List I and List II of Special A or B options for Science students left the way open for a Science student to take three options (including the open option of third year) in one department if he wished. Was this the wish of Council?

After some discussion, it was agreed to leave this matter to the Departments.

6. Special Case (Mr. John Wilmot Somers).

The Dean read to Council the petition of Mr. John Wilmot Somers that he be allowed to change from the third year of the Honors program in History to the third year of the History pattern. This would enable Mr. Somers to obtain his B.A.

degree this spring. Mr. Somers wished to get his B.Ed. after his B.A.

It was moved by Professor Thomas, and seconded by Professor Wyman, that Council recommend to the Revisions Committee that Mr. Somers be allowed to carry out his plan.

The motion was carried.

7. The Brief of the Faculty to the Royal Commission of the Province of Alberta on Education.

The Dean introduced the proposed brief and thanked the members of the Committee which had prepared it for the many hours of work the brief had entailed. He suggested that, while every member of Council was free to air his opinions, the brief be considered section by section with comments restricted to the points in question.

It was moved by Professor Salter, and seconded by Professor Cormack, that the proposed brief be accepted in principle by Council, reserving, however, the right to correct matters of detail.

After some discussion, this motion was tabled.

The Dean suggested that Council, to facilitate discussion, might dispense with much of the normal formality of Council meetings. This proposal met with general favour.

Council was informed that the German division of the Department of Modern Languages was of the opinion that not enough attention had been given in the brief to the inadequacy of German instruction in the High Schools. It was felt that the addition of a sentence would meet these objections - "where German is taught, the same remarks apply as made for other languages such as French".

Council approved the introduction to the brief.

A long discussion ensued over pages 7 and 8 of the proposed brief, which were concerned with curriculum and favoured a three-stream system.

Those opposed to the streaming system said that all the best teachers

in the other two streams would be deprived of one of their best teaching aids, the bright students. Education, it was felt, has a wider aim than simply providing a minority of students with the necessary background for university training. The streaming system would provide university material but was not good for Education as a whole. It would entail tests similar to the British 11 plus examinations, which have come under heavy fire. Council should be concerned only with raising general education standards.

Those supporting the streaming system stated that Alberta already has, in effect, a streaming system, in its prerequisite courses. The best teachers would not necessarily gravitate towards the matriculation stream and the brief did not preclude students from switching from one stream to another. As for the British 11 plus examinations, there was both good and bad in them. They bolster the value of academic training in Great Britain perhaps too highly, but this would not come amiss in western Canada where academic training is far from being in high repute.

It was apparent, however, that while all members of Council were concerned for the brighter students, all members did not think that they would be dealt with best by the proposed streaming system.

It was moved by Professor Mardiros and seconded by Professor Salter that Council delete the pages under consideration.

The motion was carried (22 to 19).

Since this action left a considerable gap in the proposed brief, it was suggested that the Brief Committee might bridge the gap by some suitable sentences. The Committee, however, felt that the deleted section was vital to the balance of the brief, that these principles were basic to its thinking, and declined to serve further.

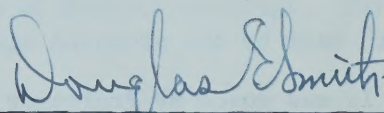
It was argued, however, that the rest of the brief was not vitiated by

the deletion and the Dean was empowered to appoint a new Committee for the purpose of salvaging the remainder of the brief. This committee should bear in mind the general agreement amongst Council members that the bright students should be encouraged, but by a more flexible system than the proposed streaming system. The Dean agreed to attempt the formation of such a committee that would somehow find a basis for agreement. This committee would report back to Council.

Council then turned to consider less controversial sections, such as the section on Teaching and the Use of Students' Time.

Considerable discussion, however, did take place on the academic requirements for High School teachers. Here the requirement of an Honours degree was questioned, since an Honours degree was a specialist's degree. Moreover, it could not be taken following a B.Ed. It was agreed, however, to let the section stand.

The meeting adjourned at 6:10 p.m.



DEAN

The minutes of a Special Meeting of the Council of the Faculty of Arts and Science, held in the Senate Chamber, April 18, 1958 at 3:30 p.m.

Present were: Dean Smith in the Chair; Professors Blackley, Brodie, Brown, Cormack, Crighton, Crosby, Duggan, Eaton, Elder, Folinsbee, Fostvedt, Goodale, McIntyre, Mardiros, May, Moser, Mueller, Newbound, Phibbs, Scargill, Stelck, Kennedy, Thomas, Trainor, Von Richthofen, Starchuk, Whyte, Wonders, Wyman. Also present by the invitation of the Dean were: Professors Penelhum, Common, Farnham, Guy, and Rheinhold.

The Dean opened the special meeting by informing Council that, as instructed, he had appointed a committee composed of Professors Brodie, Jones, Wyman and Gainor, to compose a substitute for that portion of the proposed brief rejected at the last meeting of Council. The proposed substitute for pages 7 and 8 had been given to all members of Council.

It was moved by Professor Brodie, and seconded by Professor Whyte, that Council approve the work of the new committee.

Professor Greene, the chairman of the original brief committee, wished to know if it was possible to vote against this motion and in favour of the original statement. The Dean replied that it would be possible to do this, but that there had been great objections to the original version of this section. Professor Greene had been unable to attend the previous meeting when the streaming system had been rejected by Council.

It was pointed out that, as the revised wording stood, Council would approve as high a level of general education as possible. The brighter students, it must be assumed, would be guided by competent councillors into the most suitable courses. Some members felt that the change was more apparent than real.

Other members argued that the too-early choice was eliminated, the compulsion to which many members objected had been removed, and the emphasis was now on a good education for all.

The motion was finally carried but not unanimously.

Council considered those portions of the brief devoted to English Language and Literature. Here the brief was approved after some discussion on "enriched content", the value of Shakespeare to High School students, etc.

It was agreed by Council that History and Geography should be taught as two separate subjects and that the time presently devoted to Social Studies be given to these two subjects.

Members of the Geography Department asserted that Geography is a subject with one foot in the humanities and one in the sciences. In Europe and in England, five and even six years are devoted to it. While allied to History, it has every right to stand as a separate subject.

Both History and Geography must receive separate treatment and be made compulsory in Junior High School and optional in Senior High School. They still could be required, of course, as matriculation subjects.

In considering the science section, it was asked why a thirteenth grade was not recommended to meet the needs outlined in this portion and in others. Professor Greene replied that his committee did not want it to be felt that a thirteenth year would solve all the problems; they must be attacked by the other methods suggested. If the recommendations did not produce the desired results, a thirteenth year might be put forward at a later date. It was felt by others that a thirteenth year was neither necessary nor desirable, and that the existing high school program contained sufficient time if well utilized, for what was desired.

There was a long discussion on the position of foreign languages in the proposed changes. It was felt by Council that the initial foreign language should be French, despite pleas made on the behalf of German for an equal status with that language. There could be no options in the elementary scheme and German must find its place in later studies: French would be compulsory from Grades III to IX.

In Grades X to XII, French could be continued but if this was so, a second foreign language must be taken as well. This language could be German or Spanish, or Latin, or Russian, or Ukrainian. The Council approved the suggestion that German should be made available in all schools but did not approve that this should also be the case for Ukrainian or Russian.

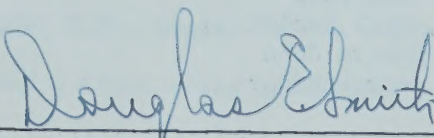
It was agreed, however, that both Russian and Ukrainian should be made available as the second language in as many schools as possible, since Alberta has a fairly large Ukrainian population and Ukrainian should be taught in some places in a literate form.

Council approved the motion that "It should be mandatory for a student offering only one foreign language for matriculation to study for three years at some time during his twelve years of schooling at least one other foreign language."

To the question of a student losing much of what he had gained in French in Grades III to IX, if he substituted a second language for French in Grades X to XII, the reply was given that students do not forget what they have learned in their formative years.

This completed Council's approval of the revised brief. The Dean informed Council that the appendix would be made to conform to the approved version of the brief.

The meeting adjourned at 6:34 p.m.


DEAN

The minutes of the 476th meeting of the Council of the Faculty of Arts and Science held in the Senate Chamber, May 8, 1958 at 2:00 p.m.

Present were: Dean Smith in the Chair; Professors Baldwin, Blackley, Brodie, Campbell, Collier, Cook, Cormack, Crosby, Davy, Elder, Folinsbee, Fostvedt, Gainor, Glyde, Goodale, Grayson-Smith, Greene, Hardy, Harrold, James, Jones, Lowig, McIntyre, Moore, May, Moser, Mueller, Newbound, Peacock, Pearce, Salter, Schiff, Spearman, Starchuk, Stelck, Thomas, Trainor, Whyte, Wyman and the Registrar, Mr. Cairns.

The Chairman welcomed Professor Baldwin as a new member of Council.

1. Minutes of the Meeting of April 7, 1958.

It was moved by Professor May and seconded by Professor Wyman that the minutes of the meeting of April 7 be approved as circulated.

The motion was carried.

2. Report of the Committee on Honors re Graduands.

It was moved by Professor Brodie and seconded by Professor Keeping that the report of the Honors Committee be adopted as follows:

Recommended for the Governor-General's Gold Medal:

McCalla, Donna Louise

Recommended for First Class Honors:

Carlson, Charles Gustav	Chemistry
Dingle, Thomas Walter	Chemistry
Hoyle, Ross Edmund	Chemistry
Johnson, Harland Euclid	Chemistry
Kryczka, Adam Alexander William	Geology
Lipsett, Morley Sherman	Physics
Lord, Audrey Christine	French and English
Loveseth, Joyce Elinore	Philosophy
McCalla, Donna Louise	English
Mason, Corilla Diane	English
Mislan, John Paul	Chemistry
Semenuk, Nick Sarden	Chemistry
Warawa, Edward John	Chemistry
Yethon, Andrew Edward	Chemistry

Recommended for Honors:

Alexandrin, Glen Gleb
 Bevington, Barbara Isabel
 Cumings, Denise Louise
 Davidson, Park Olaf
 Hattersley, Ruth Christine
 Kennedy, Ian Cameron
 McPhail, Donald Murdo
 Moser, Edward Henry
 Parry, Thomas Alan
 Peterson, Keith Ernest Enoch
 Sheppard, David Henry
 Simmonds, Jennifer Christine
 Vanderwolf, Cornelius Henry
 Vernon, Gary Conrad

Economics
 Psychology
 English
 Psychology
 English
 Economics
 Physics
 Political Science
 Psychology
 Geology
 Conservation Biology
 Modern Languages
 Psychology
 History

The one student not recommended for an honors degree would be dealt with by the Revisions Committee under "special cases".

The motion was carried.

3. Report of the Revisions Committee.

a) Lieutenant-Governor's Gold Medals.

It was moved by Professor Blackley and seconded by Professor Greene that Miss Gisela Kampff be recommended for the Lieutenant-Governor's Gold Medal for the general B.A. degree.

Professor Blackley explained that there were irregularities in Miss Kampff's program, as some of it was taken while she was working in the Dean's Office and at Summer Session, but that she was so far above all other candidates that these irregularities could be ignored. Professor Keeping felt that the terms of the award might be clarified.

The motion was carried.

It was moved by Professor Blackley and seconded by Professor Jacka that the Lieutenant-Governor's Gold Medal for the general B.Sc. degree be not awarded in the 1957-58 session since no candidate had obtained a first class standing.

The motion was carried.

b) Recommendations for degrees.

It was moved by Professor Blackley and seconded by Professor Jacka that the following students be recommended for the degrees to which they are entitled:

Recommended for the degree of Bachelor of Arts:

- | | |
|---|---|
| Alexandrin, Glen Gleb - Honors
in Economics | Kaminsky, Elsie Betty |
| Auten, Daryl James | Kampff, Gisela - First Class Standing
and First Class General Standing |
| Bakay, Alex | Kennedy, Ian Cameron - Honors
in Economics |
| Baker, Joyanne Kae | Kolodinski, Elsie |
| Baril, Germaine Muriel | Laws, Ellen Alberta |
| Beveridge, Diana Winifred | Learmonth, Janet Catherine |
| Bevington, Barbara Isabel -
Honors in Psychology | Lilly, Eleanor Jean |
| Bonetti, Irene Agnes | Lord, Audrey Christine - First
Class Honors in French and English |
| Boytinck, Paul William | Loveseth, Joyce Elinore - First
Class Honors in Philosophy |
| Brisbin, Charles Elgin | McCalla, Donna Louise - First Class
Honors in English |
| Brunelle, Beverley Anne | McCoomb, Norma Carol |
| Bryan, John Alan | McDonald, Robert Louis |
| Capp, Frances Violet | McDonald, Wendy Kathleen |
| Carter, Patricia Joyce | MacInnis, James Oliver |
| Campbell Colin Fitz-James | McLaren, Kenneth Ronald |
| Coward, Harold George | McLeod, Margaret Elizabeth |
| Cumings, Denise Louise - Honors
in English | Martland, Patricia |
| Davidson, Park Olaf - Honors in
Psychology | Mason, Corilla Diane - First Class
Honors in English |
| DeWeese, Jean Margaret | Maxwell, Thomas Winston |
| Diebel, Larry Murrele | Moser, Edward Henry - Honors
in Political Science |
| Duncan, Barry Wilfred | Newton, Robert Arnold |
| Eisert, Helen Josephine | Nicholl, Carol Jean |
| Eisert, Joan Elynore | Nordlund, Victor John |
| Elliot, Bernard Quentin | Parry, Thomas Alan - Honors in
Psychology |
| Fisk, Lawrence John | Paulence, Verna Lorraine |
| Ferguson, Joseph Frederick | Phillipson, Judith Arna |
| Flesher, -Doreen Ruth - First Class
Standing and First Class
General Standing | Robison, Paul Athol |
| Hannochko, Lorna Joy | Ross, Douglas Hever |
| Harkness, Kenneth Blair | Rude, Melvin George |
| Hattersley, Ruth Christine - Honors in
English | Sartoris, Paul Charles |
| Haugen, Desmond Obert | Simmonds, Jennifer Christine - Honors
in Modern Languages |
| Hawrelak, Jeanette Elizabeth | Steele, John Evans |
| Hobbs, Eveline Margaret | Semkow, Ronald Joseph |
| Horon, Vera | Sheftel, Allan |
| Jackson, Bruce Henry | Smith, Austin Laverne |
| Jacobson, Ronald Alan | Snaychuk, Lawrence Michael |
| Jira, Margaret Ellen | Somers, John Wilmot |
| Johnson, Harold Barry | |
| Johnson, John McGillvray | |

Recommended for the degree of Bachelor of Arts (continued):

Staniland, Pauline Alma
 Starkman, Howard Lewis
 Stead, Catherine Smith
 Sutor, Sheila Ann
 Tamura, Louise Raiko
 Thompson, Herbert George
 Thun, Shirley Elizabeth Laura
 Ukrainetz, Ehor Ivan
 Ulan, Frederick Julian
 Vernon, Gary Conrad - Honors
 in History

Vogel, Barry Cyril
 Ward, Stewart Hadley
 White, Samuel Robert
 Wright, Samuel Joseph Rogers
 Williams, John Llewelyn
 Zieber, George Henry

Recommended for the degree of Bachelor of Science:

Achtem, Allan John
 Ando, Shigeko
 Benzon, Axel Loren
 Bibby, Joan Sally
 Birnie, Ann Marie
 Boucher, Louis Arthur
 Brine, Charles Roderick
 Browett, Robert John
 Burns, Verna Jean
 Cantin, Patricia Louise
 Carlson, Charles Gustav - Honors First
 Class in Chemistry
 Collins, John Dennis
 Cote, Richard Paul
 Currie, Donald Varcoe
 Delves, Herbert Trent
 Dingle, Thomas Walter, First
 Class Honors in Chemistry
 Dumka, Ernest William
 Fonteyne, Denis Colin
 Gartke, Waldemar
 Guertin, Stanley Oscar
 Glover, Kenneth Edward
 Harle, Gerald David
 Henson, Brian Edgar
 Hoover, Joyce Yvonne
 Horeczko, Natalka
 Hoyle, Ross Edmund, First
 Class Honors in Chemistry
 Iverach, Garth George
 Johnson, Harland Euclid, First
 Class Honors in Chemistry
 Kaser, Charles
 Kaul, Ditmar William
 Kieller, Bernard John
 King, Donald Allan
 Kryczka, Adam Alexander William - First
 Class Honors in Geology
 Lipsett, Morley Sherman - First
 Class Honors in Physics

MacArthur, Helen Jane
 McCaffery, James Thomas
 McKay, Murray Marshall
 MacKenzie, Ellen Joan
 McPhail, Donald Murdo - Honors
 in Physics
 Madiuk, Bernie Laverne
 Mislán, John Paul - First
 Class Honors in Chemistry
 Mollerup, Victor
 Neely, John Michael
 Patsula, Philip James
 Peterson, Keith Ernest Enoch - Honors
 in Geology
 Pitcher, Carol Frances
 Ross, Len W.
 Rovere, Ray Louis
 Bawka, Patricia June
 Semenuk, Nick Sarden, First
 Class Honors in Chemistry
 Shandro, Hutchison
 Sheppard, David Henry - Honors
 in Conservation Biology
 Skaret, Daniel Arthur
 Sonnenberg, Harald
 Strack, John Peter
 Tobin, Rev. Terance
 Warawa, Edward John - First
 Class Honors in Chemistry
 Warshawski, Heannette
 Wasieczko, Dallas Katherine
 Week, James Robert
 Welbourn, Nora Elizabeth
 Vandermeulen, John Henri
 Vanderwolf, Cornelius Henry - Honors
 in Psychology
 Yethon, Andrew Edward - First Class
 Honors in Chemistry
 Yuen, Richard Lee Kow
 Zalesky, Christine

Special Cases:

Collin, Terrance Jerome; Leitch, Gordon James; McDonald, James Douglas

These three students had failed to qualify for the degree of B.Sc. with honors. The Revisions Committee recommended that they be awarded pass degrees on the basis of their first three years.

The motion was carried.

c) Failed to meet requirements for degrees.

Professor Blackley then submitted the Revisions Committee's recommendations regarding students who had failed to meet requirements for degrees as follows:

Failed to meet the requirements for the B.A.:

Aizenman, Rebecca - Needs one second
 Anthony, Richard M. - Needs Three seconds
 Audy, Jean B. - Failed Zoology 1. Needs biological science.
 Avid, Sine- Needs one second. Did not obtain second in Supplemental in Economics 69.
 Baldrige, Harold G. - Needs one course and failed Physical Education.
 Borgstede, Wilfred B. - Failed Supplemental in Math. 5. Needs one second.
 Celli, Delina Mary - Needs two seconds
 Clague, John Sendall - Failed Biology 41, needs biological science.
 Curry, James Ross - Failed Economics 60 and Political Science 55. Needs two courses.
 Derrick, John Daniel - Needs three seconds
 Edwards, James Stewart - Failed four courses (Cat. IV).
 Farley, Frank Hoover - Failed three courses, absent one. Category IV.
 Fisher, Sheil Ann - Failed Physics 41. Needs a Physical Science.
 Foster, John Elgin - Failed French 50. Needs one course.
 French, James W. - Needs two seconds.
 Hale, Donald A. - Needs two seconds
 Hall, Rosemary Carveth - Failed Geography 1. Needs a physical science
 Hall, Stuart A. - Failed Biology 41. Needs four seconds and a biological science.
 Hamilton, Robert Grant - Failed Economics 69. Needs two seconds and senior Economics course.
 Henning, James Leonard - Failed Psych. 52. Needs one course and one second.
 Homeniuk, Ernest J. - Needs four seconds.
 Jettkant, Ruth U. - Needs one second.
 Koshel, Harry - Failed French 2. Needs Jr. A or B option and four seconds.
 Kravinchuk, Leonard Leslie - Needs one second
 Kwang, Richard - Needs two seconds.
 Luchkovich, Denis Martin - Failed Economics 60 and Zoo. 1 Needs 2 seconds.
 Millman, Sidney E. - Failed Biology 41 and Pol. Sc. 58. Needs three seconds.
 Moore, Marlin Lloyd - Failed French 2. Needs one course.
 Peacock, Ralph Maxwell - Failed Economics 69. Needs senior Economics course and four seconds.
 Pollard, Francis C. - Needs one second.
 Rachwalski, Janet L. - Needs one second.
 Repka, Don Andrew - Failed Biology 41. Needs biological science and two seconds.
 Robertson, William K. - Needs two seconds.

Failed to meet requirements for the B.A. (continued):

- Smith, John Barry - Needs three seconds
 Ian O. Spence - Needs one second.
 Vickerson,, Robert K. - needs supplemental in Equity.
 Webber, Donald E. - Failed Economics 69. Needs senior Economics course and two seconds.
 Wheatley, Susanne E. - Needs one second.

Failed to meet the requirements for the B.Sc.:

- Beauregard, Michael A. - Needs two seconds.
 Branigan, Donald W. - Failed Entomology 41. Needs Ent. 41 and two seconds.
 Ferguson, Joseph William - Failed Geol. 55 and Chem. 54. Needs three courses and three seconds. Ill for GEology 57.
 Gagnon, Denis E. - Failed Physics 44. Needs $\frac{1}{2}$ course.
 Gibson, Brian Harry - Failed Zoo. 53. Needs senior Zoology course.
 Gronnestad, Alfred Gerhard - Failed Math. 57. Needs one course.
 Hansell, William George - needs one second.
 Herunter, Herbert E. - Needs one second.
 Horricks, Manville G. - Needs four seconds. Failed Geol. 54 and Art 51 in extra year.
 Kangaloo, Arnim R. - Needs three seconds.
 Klymkowych, George - Failed GEol 57, 55, Chem. 54, Absent without excuse Physics 52. Cat IV.
 McCaffrey, James Stephen - Needs one second.
 McCaffrey, John Bernard - Failed Geology 55. Needs one course and one second.
 McKay, Mary Winnifred - Lacks Math. 5.
 Malchow, David George - Failed Zoo. 53. Needs two seconds and one course.
 McKeage, James Maxwell - Failed Physics 42. Needs two courses and two seconds.
 Millar, Gordon E. - Failed Math 40. Needs one second and one course.
 Moro, Marilyn J. - Needs three seconds.
 Orr, Donald W. - Failed GEology 57, Latin 2 and Physics 41. Cat. IV
 Parker, Graham R. - Failed Physics 43. Needs one course and one second.
 Piers, John - Failed History 59. Needs three seconds and one course.
 Rutherford, Ralph Allan - Failed Physics 44. Needs Physics 44 and one second.
 Sanderson, Kenneth F. - Failed Chem. 54. Needs one course.
 Sankeralli, Ainsley R. - Failed Geology 45. Needs one course.
 Schur, Jacqueline M. - Needs three seconds.
 Slabyj, Bohdan O. - Needs one second.
 Stewart, Harry J. - Failed French 2. Needs one A or B course.
 Stewart Ian M. - Failed Math 57. Needs one second and one course.
 Stinner, Arthur Otto - Failed Math 57. Needs two seconds and one course.
 Stubbs, Hubert James - Failed Zoo 51 and Zoo 53. Needs two courses and one second.
 Tester, Donald Edward - Failed Botany 1 and Chem. 104. in extra year. Needs Botany 1 or Zoology 1.
 Togni, Richard Louis - Failed Geol 54, Physics 44 and Chem 54. Cat. IV
 Villett, Lowell Sulvan - Needs one second.
 Waddell, Warren D. - Needs one course. Did not write Geol. 55.
 Wilkins, Arthur A. - Needs one second.

Special Cases:

- i) Bent, Dale Harold; Buckley, Peter Holdsworth.

These were third year honors students who had failed to qualify for the fourth year of the honors mathematics program because they had failed two courses each. The Revisions Committee recommended that they substitute an A or B option for Mathematics 61 which they had failed and be granted supplementals in Physics 53. If they fail the supplemental in Physics 53, they then should take in its place another course which would bring them closer to the pass degree requirements than Physics 53, and be granted a pass degree on the successful completion of these courses.

- ii) Germundson, Robert Ken; Overbo, Edward William.

These students failed to qualify for the fourth year of the honors program because they each failed one course. The Revisions Committee recommended that they be awarded the pass degree if they passed supplementals in the courses which they had failed.

- iii) Roddie, Robert Grant.

Professor Blackley informed Council that Mr. Roddie by ruling of Council would qualify for his bachelor of Arts degree on the basis of his successful completion of second year Law at the University of Saskatchewan. Since his record was not yet available, he would receive his degree at Fall Convocation if his year was a successful one.

Considerable discussion ensued on the recommendations of the Revisions Committee for Mr. Bent and Mr. Buckley.

It was moved by Professor Lowig and seconded by Professor Keeping that Mr. Bent and Mr. Buckley be allowed supplementals in both courses which they had failed, despite their extremely low marks in Mathematics 61 which normally would not have qualified them for such a privilege, and that successful completion of these supplementals would qualify them for the pass degree.

The motion was carried.

The position of Certain graduands who had failed to meet the requirements for a degree was discussed.

It was moved by Professor Blackley and seconded by Professor Jacka that the recommendations of the Revisions Committee regarding students who had failed to qualify for degrees be approved.

The motion was carried.

4. Report of the School of Household Economics.

Professor McIntyre presented the report of the School of Household Economics as follows:

Recommended for the degree of Bachelor of Science in Household Economics:

Anderson, Maxine Clarice	Nelson, Gweneth Yvonne
Dumont, Esther Cordelia	Olsen, Karene
Harrison, Marianne June Olesky	Scott, Sylvia
Jarvis, Rhoda Jean	Shantz, Donna Lloy
Krokosh, Alice	Sr. Mary Philippine, B.A.
Laberge, Mary Barbara Anne Victoria	Skrepneck, Natalie
Lowe, Elizabeth Ann	Smith, Betty Jean
Meyer, Anne Marie	Stewart, Elizabeth Anne
	Wachowich, Patricia Winifred
	Ward, Margaret Joan
	Witney, Edith Elizabeth
	Woloshyn, Joan Elizabeth
	Yakimowich, Eileen

Recommended for the degree of Bachelor of Household Economics:

Carney, Kathleen Mary

Failed to meet the requirements for the B.Sc. in Household Economics:

Rosa, Evelyn C. - Failed H.Ec._64. Needs $\frac{1}{2}$ course.
 Schell, Margaret E. - Failed Geography 51. Needs one course and two seconds.

It was moved by Professor McIntyre and seconded by Professor Moore that the report of the School of Household Economics be approved.

The motion was carried.

5. Report of the School of Commerce.

Professor Goodale presented the report of the School of Commerce as follows:

Recommended for the degree of Bachelor of Commerce:

Ashton, John Glyndwyr
 Badger, Donald Edwin
 Baird, Oliver Perry
 Broadfoot, Kenneth H.G.
 Brooks, Douglas L.
 Campbell, Gary Gordon,
 Carr, Gerald
 Churchill, John Winston
 Dame, Robert Ernest
 Denham, Ross Allan
 Eurchuk, Eugene William
 Feasel, Richard Allen
 Fisher, Frances Joan
 Gerald, Georgene
 Girling, Shirley A.
 Gourley, Alexander Edward
 Grimm, Gwendolyn Ann
 Johnson, David Keith
 Jones, Thomas Arthur

Jorgensen, Edgar
 Levine, Israel Aube
 Locke, Duncan Allan
 McClelland, Robert John
 Matens, Peter Edward
 Nixon, Larry Ray
 O'Connor, Edward Graham
 Poile, Arthur Alphonse
 Quapp, Carl Henry
 Roberts, Frederick Neil
 Shtabsky, Aaron
 Sidjak, Stanley Samuel
 Smith, James Crawford
 Whittle, Raymond L.
 Wiese, William Arthur
 Willis, Hugh Grant
 Witherell, Norman H.
 Wright, Penny Margery A.K.

Failed to meet requirements for B.Comm.:

Klymkowych, Bohdan Andris - Lacks one course and one second
 Litelpo, Donald Norman J. - Lacks two courses and two seconds
 MacLeod, Roderick Gilbert - Lacks three courses and five seconds (Cat. II)
 Macor, Clifford Trimble - Lacks five courses and two seconds (Cat. IV)
 Millar, Bruce P.R. - Lacks one course and three seconds
 Pogue, Robert McBride - Lacks one course and four seconds
 Sprague, Donald Howard - Lacks two seconds.

It was moved by Professor Goodale and seconded by Professor Gainor that the report of the School of Commerce be approved.

The motion was carried.

6. Report of the Department of Fine Arts re Diploma Students

It was moved by Professor Glyde and seconded by Professor Blackley that the following student be recommended for the senior diploma in Art:

Schmidt, Mrs. Henrietta A.

The motion was carried.

7. Authority for revision of examination results for summersession and fall supplementals

It was moved by Professor Collier and seconded by Professor Gainor that the regular Revisions Committee be empowered to act for Council in the cases of undergraduates

(not under the jurisdiction of the First Year Committee) whose results are incomplete, and in the cases of students writing supplemental examinations; and that the Dean be empowered to appoint a special Revisions Committee to act similarly on the examination results of students in the Summer Session.

The motion was carried.

8. Motion on the retirement of Professor R.W. Collins.

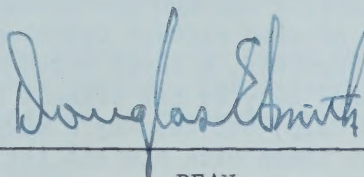
The Chairman asked permission to record in the minutes an expression of appreciation by this Council of the services of Professor Ross William Collins, a retiring member; as read by Professor Thomas: The permission was granted enthusiastically and the expression is appended below.

Professor Ross William Collins, a native of Port Williams, Nova Scotia, received the degrees of M.A. from Acadia University, of B.D. from Union Theological Seminary and of Ph.D. from Columbia. After study in Europe, he joined the staff on the University of Syracuse in 1923 and in 1930 came to Alberta as a member of the Department of History. In 1952 he became Head of the Department.

Although his doctorate was in the field of Modern French history, his versatility as a scholar has been demonstrated by his numerous publications; his recognition as an authority in the field of medieval history and his institution at Alberta of courses in economic and Russian history. He is a Fellow of the Royal Historical Society.

His distinguished scholarship, his unfailing kindness and understanding and his quiet wit will be greatly missed in his Department, in this Faculty and in the University.

The meeting adjourned at 3:02 p.m.

A handwritten signature in blue ink, reading "Douglas Smith", is written over a horizontal line.

DEAN

The 477 meeting of the Council of the Faculty of Arts and Science was held in the Senate Chamber, on Monday, October 6, 1958, at 4:30 p.m.

Present were: Dean Smith in the Chair; Professors Axford, Baldwin, Blackley, Brodie, Collier, Crighton, Crosby, Davis, Davy, Duggan, Goodale, Greene, Harris, Harrold, Hocking, Jacka, James, Keeping, Kennedy, Kreisel, Lowig, McIntyre, McNamee, Spencer, Starchuk, Stelck, Thomas, Trainor, Von Richthofen, Wonders, Wyman and Mr. Hawes, the Assistant Registrar. + *Marderos, May, Newbound, Nursall, Robinson, Ryan, Salter Schiff, Scott, Spelman*

Professors Axford, Kennedy, McNamee and Robinson were welcomed by the Dean as new members of Council.

1. Minutes of the Meeting of May 8, 1958.

Professor Blackley summarized the minutes of the meeting of May 8. These minutes consisted largely of the names of graduands and of those students who had failed to meet requirements for graduation. Consequently they had not been circulated

It was moved by Professor Keeping and seconded by Professor Newbound that the minutes of May 8 be adopted as read.

The motion was carried.

2. Death of Professors Mueller, Gowan and Walker.

Professor Greene moved that the following tribute to Professor Mueller be included in the minutes:

Erich Mueller's first appointment to the staff of the Department of Modern Languages was in April 1932, as a Teaching Assistant in German. Those days were perhaps the worst of the Great Depression and it was only through continual sacrifice and devotion to the purposes to which he had dedicated himself that he was able to complete his academic qualifications. Thanks to this spirit, as he progressed through the ranks of the academic hierarchy, receiving his full professorship in April 1957, Erich Mueller became, for an ever larger number of persons on the campus, both students and staff, a man who was something more than another German professor, the author of some sixteen teaching manuals. He was the soul of kindness and of probity, a loyal servant and a staunch friend. His loss is keenly felt, not only by his friends here, by those whom he had befriended when they needed help, but also by a surprisingly large number of former students who kept in touch with him and for whom he was the man who gave meaning to the phrase "a gentleman and a scholar".

The motion was carried by a standing vote.

Professor Scott moved that the following tribute to Professor Gowan be included in the minutes:

Edward Hunter Gowan, Professor of Physics, was for thirty-one years a member of the Physics Department until his death on August 27, 1958. He graduated from the University of Alberta in 1925 and went to Oxford as a Rhodes Scholar where he received the degree of Doctor of Philosophy in 1928. While at Oxford he developed an interest in the meteorology of the upper atmosphere and throughout his lifetime he carried on work on the measurement of ozone, ultraviolet light and stratosphere temperature. As a result of his numerous scientific publications, he became internationally regarded as an expert, and he served on several international commissions for the World Meteorological Organization.

On the Campus Ted Gowan was a quiet, congenial colleague who was always active in the life of the University. He had been President of the Men's Faculty Club, the Philosophical Society and the Science Association.

The motion was carried by a standing vote.

Professor Davis moved that the following tribute to Professor Walker be included in the minutes:

We would like to record the passing of an illustrious member of the Faculty of Arts and Science. Dr. Osman James Walker passed away on Tuesday evening, September the 9th at the age of 66. Dr. Walker had been in failing health for a number of years, but his sudden death came as a shock to his many friends.

Dr. Walker joined the teaching staff of the University of Alberta as an Assistant Professor in 1920, shortly after receiving his Ph.D. degree from McGill University. In 1934 he was appointed Full Professor, and in 1942 was made Head of the Department of Chemistry. In 1952, he also became Director of the School of Graduate Studies.

Dr. Walker was Immediate Past-President of the Chemical Institute of Canada and through his activities in this organization, the good name of the University of Alberta has been spread throughout the country.

Dr. Walker carried out research in analytical chemistry on methods of detecting trace quantities of elements such as fluorine, iodine, selenium and manganese in naturally occurring materials. He is especially famous for his studies of the relation between the fluoride content of water to the occurrence of dental caries. He became an acknowledged expert on the subject of fluoridation of water, and was an enthusiastic supporter of this means of reducing dental caries.

During World War II he did research for the Canada Chemical Warfare Group on the preparation of screening smokes.

Dr. Walker was a Fellow of the Chemical Institute of Canada and of the Royal Society of Canada. He was a member of the Technical Advisory Committee of the Research Council of Alberta.

Dr. Walker will be remembered with deep affection by those who had the privilege of studying under him. Through his passing, the University has lost a distinguished staff member, and his colleagues, a respected friend.

The motion was carried by a standing vote.

3. Business Arising Out of the Minutes: Brief to the Royal Commission on Education.

The Dean reported to Council the hearing given by the Commission to the brief of the Faculty. The brief was presented on the morning of September 17 by the Dean with the assistance of all members of the Committee then available. The members

of the Commission asked questions about the brief and also asked questions about points in other briefs not covered in the Arts and Science document.

4. Report of the Summer Session Revisions Committee.

It was moved by Professor May and seconded by Professor Jacka that the following students be recommended to General Faculty Council for the degrees to which they are entitled; and that the following changes in marks be approved:

For the degree of Bachelor of Arts:

Appleby, John Ernest
Cousineau, Charles Dickson
Barabash, William B.Ed.
Fisher, Sheila Ann
Baranyk, Peter John B.Ed.
Hare, Robert Douglas
Irwin, Marion Elizabeth B.Ed.
Larson, Bjarne B.Ed.
Leadbetter, Eric Brewer
Lyndon, Jack Lawrence

McKay, Allison Jean
Mantin, Anne Marie B.Mus. (Sr. Marion Carm
Naciuk, William B.Ed.
Pilkington, Mrs. Catherine H.L.
Purdy, Robert Lawrence
Saruk, Alec B.Ed.
Stewart, Sheila Ann
Wendt, Leon Frederick B.Ed.
Witten Lawrence Stuart

For the degree of Bachelor of Science:

Derbyshire, Almquist Jack
Loven, Galen Ernest

Smart, Peter B.Ed.
Tewinkel, Elizabeth Wolf

The following changes in marks were made:

Kozar, Frank
Lyndon, Jack Lawrence
McColl, Fred Arnold q
MacLean, John Gordon
Maiko, Louis J.
North, Gwendoline J.
Ross, Harry Podwysocki

History 66 lowered from 46 to 45.
Economics 66 raised from 63 to 65
French 2 lowered from 46 to 45
Math. 41 lowered from 47 to 45
French A lowered from 47 to 45
Geology 1 raised from 49 to 50
Geology 1 lowered from 47 to 45.

The motion was carried.

5. Report of the Regular Revisions Committee on Results of Supplementals and Appeals.

It was moved by Professor Blackley and seconded by Professor Kreisel that the following report of the Regular Revisions Committee be accepted by Council:

The following students have qualified for the degree of Bachelor of Arts:

Aizenman, Rebecca
Audy, Jean B.
Celli, Delina Mary
French, Jas Walter
Hall, Rosemary Carveth
Halstein, Esther Alice
Jettkant, Ruth Ursula
Kravinchuk, Leonard Leslie

Leonchuk, William
Rachwalski, Janet Lillian
Robertson, William Keith
Roddie, Robert Grant
Smith, John Barry
Spence, Ian Oliver
Vickerson, Robert Kenneth
Wheatlev, Susanne Elizabeth

The following students have qualified for the degree of Bachelor of Science:

Germundson, Robert Ken
Gronnestad, Alfred Gerhard
Hansell, William George
McCaffrey, John Bernard
MacKeage, James Maxwell
Milligan, John Vorley
Moro, Marilyn Joy
Persad, Hendrick Hilary

Leo Ratsoy, Edward
Rutherford, Ralph Allan
Slabyj, Bohdan Mykola
Stewart, Harry James
Stewart, Ian Malcolm
Tester, Donald Edward
Villett, Lowell Sylvan

The following changes were made in marks obtained on supplementals:

Campbell, George Archibald
Lloyd, George Marion
Maccagno, Hugh Joseph
Millman, Sidney Edwin
Robertson, William Keith
Switzer, John Jack

Math. 57 raised from 48 to 50
Sociology 40 raised from 63 to 65
Pol. Sce. 63 raised from 48 to 50
Biology 41 ~~xxi~~ lowered from 47 to 45
Biology 41 raised from 64 to 65
Psychology 40 raised from 63 to 65.

The motion was carried.

Special Case: Richard M. Anthony.

Professor Blackley reported the case of Mr. Anthony. In June, Mr. Anthony needed three second class marks to graduate. He applied for rereads in History 57 and Sociology 56. The appeal in History 57 was not sustained; he received no word on his appeal in Sociology 56. Therefore Mr. Anthony applied for supplemental examinations in Sociology 56, History 57 and Psychology 63. Two days after he wrote the supplemental in Sociology 56, Mr. Anthony learned that his appeal in that subject had been sustained and requested that his paper be cancelled. He was successful in obtaining a 65 in History 57 but not in Psychology 63. Mr. Anthony's request was that he be given his degree notwithstanding his lack of one second, since he might have achieved this mark if he had had to study for only two supplementals instead of three.

It was moved by Professor Blackley and seconded by Professor Nursall that Mr. Anthony be granted the degree of Bachelor of Arts in spite of his lack of second class standing in the required number of courses.

The motion was carried. (18 - 11)

6. Report of the School of Commerce.

It was moved by Professor Axford and seconded by Professor Goodale that the following students be recommended to General Faculty Council for the degree

of Bachelor of Commerce, subject to the approval of the Council of the School of Commerce

Collins, Lawrence David

Sprague, Donald Howard

The motion was carried.

7. Report of the School of Household Economics

It was moved by Prof. McIntyre and seconded by Professor Duggan that ~~the~~ following student be recommended to the General Faculty Council for the degree of Bachelor of Science in Household Economics:

Evelyn Caroline Rosa

The motion was carried.

8. Motion on Cases Arising Out of Special Supplementals.

It was moved by Professor Blackley and seconded by Professor Axford that the Revisions Committee be empowered to refer directly to General Faculty Council those students who may become eligible for graduation on the basis of deferred supplemental examinations since the Council of the Faculty of Arts and Science will not meet again until after the Fall Convocation.

The motion was carried.

9. Calendar Changes and New Courses.

The Dean announced that it had been necessary to put into effect, provisionally certain course changes and new courses not yet approved by Council. It was moved by Professor Collier and seconded by Professor Mardiros that these be approved:

Department of Biochemistry

106. Chemistry of the Erythrocyte

(3-0;0-0)

A lecture course on recent advances in the chemistry of the mammalian erythrocyte to include: structure and composition; chemistry of the hemoglobins; metabolic and biochemical lesions; permeability and cation transport; life-span, and problems of blood storage.

Prerequisite: Biochemistry 50 or 71.

Department of Mathematics

121. Probability Theory and Applications

(2-0;2-0)

Limit theorems for random variables. Random walks and recurrent events. Applications to Markov chains and selected statistical problems.

122. Selected Topics in Mathematical Statistics.

This will carry graduate credit as a full course, but definite hours will not be prescribed.

Department of Philosophy and Psychology

47. General and Industrial Psychology.

(3-0;3-0)

A beginning course in psychology designed to present the basic areas of psychology with particular reference to the field of business and industry.

There was some discussion on Psychology 47. This course is for the special program in Commerce which was approved last spring by Council. At that time the actual course had not been established and was simply designated "psychology" on the program.

The question of whether or not it would be open to other Arts and Science students and whether or not it would be on the list of Special A or B courses was left to another meeting.

The motion was carried.

It was moved by Professor Davy and seconded by Professor Thomas that the following change in the Political Science pattern be approved:

Department of Political Economy

Political Science Pattern: Second Year: Delete first two lines; substitute: two approved courses in Political Science.

The motion was carried.

It was moved by Professor Davis and seconded by Professor Collier that the following course in Chemistry be approved:

Department of Chemistry

120. Natural Products.

(3-0;0-0)

The chemistry of some alkaloids, terpenoids, steroids, and microbial metabolic products; Structural determination, possible modes of biogenies, and synthesis of some of these compounds will be discussed.

Prerequisite: Chemistry 102.

The motion was carried.

10. Appointments to Committees

The Dean reported to Council on the appointment of a nomination committee for the new Faculty Executive Committee. He said that it had been impossible to form such a committee during the summer months, since so many of staff were then absent from campus.

11. Renumbering of Courses

Professor Blackley, a member of the University Committee on the Renumbering of Courses, reported to Council on the progress made by the Committee. He said that

the following had been proposed as a system of renumbering to be used and urged members to submit criticisms to himself or to Professor Newbound (also a member of the Committee):

<u>Suggested System for Course Re-Numbering</u>	
<u>Courses numbered</u>	<u>Status of course</u>
A	Senior matriculation deficiencies
100 - 199	Credit courses, but at senior matriculation level
200 - 219	First year courses without specific High School pre-requisite
220 - 299	First year courses with specific High School pre-requisite
300 - 399	Senior courses without university pre-requisite
400 - 499	Senior courses with one or more university pre-requisite
500 - 699	Honors and Graduate courses.

12. Special Cases

a) Mr. Lawrence H. Pazder

Mr. Pazder wishes to obtain his B.Sc. in this Faculty using credits obtained in the Faculty of Medicine, the Faculty of Engineering and Gonzaga University. His advance credits are such that he would need only 2 or 3 Arts and Science courses for his degree, in this faculty, depending on the pattern which he chose. This ruling, however, would violate the regulation requiring students to take a full year intramurally in the faculty.

It was moved by Professor Davis and seconded by Professor Kreisel that Mr. Pazder be granted permission to obtain his degree by taking only sufficient courses to complete the requirements for the pattern of his choice.

Some members of Council felt that the residence regulation should not be waived for Mr. Pazder as he had changed his mind so many times. Others pointed out that this rule was instituted mainly to prevent students obtaining degrees at Summer Session and Evening Credit only.

The motion was carried.

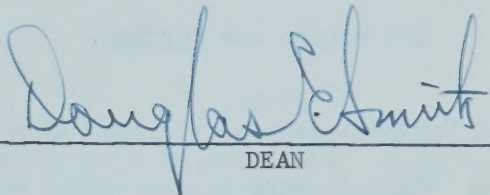
13. Other Business

The Dean announced various scholarships, exchange programs, bursaries, grants

fellowships etcetera available to staff members and said that details of these were available in the Arts and Science office.

Professors Wonders and Thomas wished to go on record as being against the vending machines in the rotunda of the Arts Building. There was general support for this comment. The Dean agreed to convey these sentiments to the proper authorities.

The meeting adjourned at 5:40 p.m.


DEAN

The minutes of the 478th meeting of the Council of the Faculty of Arts and Science held in the Senate Chamber, Monday, November 3, 1958 at 4:30 p.m.

Present were: Dean Smith in the Chair; Professors Baldwin, Bhatia, Blackley, Cormack, Crighton, Crosby, Davis, Duggan, Eaton, Elder, Folinsbee, Fostvedt, Goodale, Greene, Hanson Harky, Harrold, Horton, Jacka, Jones, Keeping Kennedy, Kreisel, McIntyre, McNamee, Mardiros May, Moser, Newbound, Phibbs, Robinson, Salter, Scargill, Schiff, Scott, Spearman, Spencer, Starchuk, Stelck, Thomas, Trainor, Von Richthofen, Whyte, Wyman, Mr. Cairns the Registrar and Professors Gibb, Guy and Self from Calgary. Assistant Professor Reinhold was present at the invitation of the Dean.

1. Minutes of the Meeting of October 6, 1958.

It was moved by Professor Eaton, and seconded by Professor Kreisel, that the minutes of the meeting of October 6, subject to the inclusion of the names of several attending members omitted in the circulated material, be approved.

The motion was carried.

2. New Courses

Council agreed to consider new courses before Business Arising from the Minutes, since Professor Reinhold, who was present on the invitation of the Dean as Director of the proposed Summer School on Linguistics, 1959, had to leave shortly for a class.

A. The 1959 Summer School of Linguistics.

The Dean said that the 1958 Summer School of Linguistics had been a successful one and that it was now proposed to hold a second such school with a somewhat different program. Dr. Reinhold explained that the suggested courses for the school now before Council had been produced by a Summer School of Linguistics committee, had gone before the normal Summer School Committee and had been considered by the Departments concerned. Some of the proposed courses had been given at the 1958 Summer School, but there had been changes in content and title, while the others were new courses.

It was moved by Professor Greene and seconded by Professor Hardy, that the following program be approved by Council:

New Courses (*) and Revised Course Descriptions (**)

(**) Linguistics 50: General Linguistics

(10-0)

An introduction to and a survey of the field of language and languages dealing with the fundamentals of structural and historical linguistics. Topics discussed include language families, types of languages, linguistic change, linguistic structure. Emphasis will be placed on Modern European languages.

- (**) Linguistics 51(a): Ponetics and Phonemics (5-0)
A study of the speech organs and of speech production. Types of speech sounds. Phonetic analysis and transcription. Phonemic theory and analysis.
- (**) Linguistics 51(b): Morphology and Syntax (5-0)
Methods of grammatical analysis stressing the identification and analysis of the morphological and syntactic units of a language. Underlying theory. Examples will be taken from European and Amer-indian languages.
Pre or co requisite: Linguistics 51(a).
- (*) Linguistics 51(c): English Phonetics (5-0)
A descriptive study of the pronunciation of English with special attention to Canadian English. Practical work in oral recognition and phonetic notation.
Pre or co requisite: Linguistics 51(a).
- (*) Linguistics 51(d): French Phonetics. (5-0)
An analytical description of the sounds of French. Drill in oral recognition and phonetic transcription. Application of phonetic and phonemic studies to the teaching of French.
Pre or co requisite: Linguistics 51(a).
- (*) Linguistics 55: Cree Phonology and Structure (10-0)
A descriptive study of the sounds and structure of Cree. Intensive drill of basic patterns. Native informants and recorded material will be available. A survey of the Algonquian languages and an introduction to field methods in linguistics will be included.
pre or co requisites: Linguistics 51(a) and 51(b) or consent of the instructor.
- (*) Linguistics 57: Eskimo Language and Culture (10-0)
A descriptive study of the sounds and structure of Eskimo. Intensive drill of basic patterns. Native informants and recorded material will be available. Introduction to field methods in Linguistics and to Eskimo culture.
Pre or co requisites: Linguistics 51(a) and 51(b) or consent of the instructor.
- (*) Linguistics 59: Introduction to Slavonic Linguistics (10-0)
An introduction to the languages of the Slavonic peoples. The study will cover proto-Slavonic, Old Church Slavonic and the Modern Slavonic languages with special attention to their common features and their differences.
- (*) French 59: Semantics and Translation Theory and Practice (10-0)
Semantics and the problem of the transfer of meaning from one language to another. Systematic comparison of the stylistic resources of English and French. Exercises in translation selected from modern literary, scientific and political publications.

In explanation, Council was informed that all the courses contained in the motion were under the jurisdiction of the Department of Modern Languages. As for the course numbered 51, all students would take 51(a) (a half course) and follow it by a second half course from 51(b), 51(c), or 51(d). One member of Council wondered why different numbers were not assigned to these half courses thus avoiding "a", "b" and "c". The Registrar said that there was a precedent for such a set of numbers. He hoped that all numbering

inconsistencies would be ironed out in the proposed general renumbering of courses next year. The Dean reminded Council that these courses would not be given every year since the present proposals did not envisage a Summer School of Linguistics each year.

The motion was carried.

It was moved by Professor Jones and seconded by Professor Scargill that English 92, with revised description as follows, be approved again for Summer School, 1959 only:

(**)English 92: Linguistics Geography and Lexicography.
(Change in title only.)

The motion was carried.

B. Summer Institute of Mathematics

The Dean informed Council of a proposed Summer Institute of Mathematics in 1959, which was to enable teachers to profit from the most recent ideas in Mathematics. The Mathematics Department, for this Institute, sought the approval of two new courses. These Professor Keeping explained, might be given also in regular sessions and were full courses: they should be included in both the regular and the Summer Session calendars. It was moved by Professor Keeping and seconded by Professor Wyman, that the following courses be approved:

- 491 Elementary Mathematics from an Advanced Viewpoint (3-0;3-0)
Topics from ordinary high school algebra and geometry will be treated from the unifying point of view of more modern concepts such as function, set, group, symbolic logic, the axiomatic method, and the development of a number system.
54. Introduction to Modern Algebra (3-0;3-0)
The nature of proof. Introduction to number theory. Boolean algebra and applications. Group theory. Matrices, determinants, and systems of linear equations. Fields, rings and ideals.

The motion was carried.

C. New Course: Department of Classics.

The Dean informed Council that Latin 109, an Honors and graduate course, had been approved by General Faculty Council on 20th October, subject to the approval of this Council. The Course was being offered this session.

It was moved by Professor Hardy and seconded by Professor May, that the following course be approved by Council:

Latin 109.

Tibullus, Propertius, Ovid Amores.

A study of the Development and themes of the Roman Elegy. ✓

The motion was carried.

D. Beginning Language Courses at Summer School.

It was moved by Professor Greene and seconded by Professor Hardy that beginning language courses at Summer School be scheduled for fifteen hours a week of instruction and that, if this be approved, be given full credit. As it now stood, such courses were offered for ten hours a week and must be followed by a second course (e.g. French 1 by French 2) before credit was given. Winter courses in beginning languages had once been subject to such a rule until the hours had been changed from three to five. The proposed adjustment in Summer School hours would be roughly the equivalent of this earlier adjustment of hours of instruction in the regular session.

Two points emerged in the discussion that followed. One was the suggestion that the time adjustment might be made by demanding intensive pre-session study, comparable to that of English 2. The second was the advisability of registering in two Summer Session courses, one of which was a fifteen hour course, since students so doing would have little time for study.

As to the first suggestion, Professor Greene felt that little could be gained by home study. His department did ask students to become familiar with the Comparative Grammar for Foreign Students which was, he felt, as far as they could go without acquiring bad study habits. Only if they had a real tutor could pre-session progress be made. For French 1, he suggested 10 hours of class periods a week, with five hours for laboratory work. Professor Hardy concurred in this proposal. He admitted that pronunciation did not play the important part in Latin 1 that it must in French 1 but thought the division of time a good one. In the case of Latin 1, the five hours laboratory would be used for drill. A bright student might make some progress by himself or herself in Latin 1 in pre-session study ~~byxxx~~ but there was always the danger of bad study habits. Both Professor Greene and Professor Hardy felt that pre-session study would not bring as good results as an increase in instructional time during Summer School.

On the second point there was considerable discussion. It was noted that the normal practice was to consider one laboratory class as a sufficient summer school load for a student, although exceptions were made from time to time with warnings. In no case was two laboratory courses allowed.

The Dean felt that the second point could well be separated from the proposal and asked for a vote on the actual motion proposed.

The motion was carried.

On the second point, no motion was forthcoming from Council.

E. Ukrainian 1 at the 1959 Summer School.

Professor Greene informed Council that the Faculty of Education was required to produce teachers competent to instruct in Ukrainian in High Schools. His department wished to see that Ukrainian would be taught according to the same standards as other languages. Accordingly it was moved by Professor Greene and seconded by Professor Von Richthofen that Ukrainian 1 be introduced as a course to be taught at the 1959 Summer Session.

Professor Greene informed Council that he felt this proposed action was necessary since the Minister of Education had announced the teaching of Ukrainian in High Schools. At the moment, Ukrainian 1 might be open only to Education students although possibly it might be allowed later for students concentrating upon Slavonic studies. At the December meeting of Council, he might recommend Ukrainian 1 as a second Slavonic language for those in an Honors Slavic program. The immediate need, however, was for approval of the course for Summer Session to assist Dr. Gillis, the Director, in his planning. The Dean stated that Council might approve Ukrainian 1 as a course but not open it as yet for students in Arts and Science.

A Council member wished to know what allowance would be made for students who already know a good deal of Ukrainian. The Dean suggested that such students might take a more senior course, following the precedent in other languages. Professor Greene agreed that at the 1960 Summer School it might be necessary to introduce Ukrainian 40.

Perhaps it might be wise to do so immediately. Special examinations could be used to discover which students could profit from Ukrainian 1 and which would not.

It was asked if the acceptance of Ukrainian 1 as a course would imply the recognition of Ukrainian as a language of matriculation. The Dean replied that this was not so; but a request for such recognition might be received later and separately considered.

Since Ukrainian 1 would be a beginning language, Ukrainian 2 and Ukrainian 40 (if introduced) would demand prerequisites. The question was asked as to what extent would High School Ukrainian be accepted as a prerequisite and how this would influence the position of Ukrainian as a language of matriculation.

The Dean stated that three stages were probably involved:

1. The need to provide teachers of Ukrainian in the High Schools whose training would be comparable with the teachers of other languages - hence the need for Ukrainian 1.
2. The possibility that Ukrainian 1 would be accepted as a course carrying credit in the Faculty of Arts and Science.
3. The possibility that Ukrainian would attain the position of a Grade XII language of matriculation.

This Council and General Faculty Council decide upon courses to be offered for credit in a Faculty. Acceptance of Ukrainian 1 as a course with no stipulation that it would be accepted in this Faculty was not a commitment that credit would ever be given for it in Arts & Science, or in matriculation.

It was asked if Ukrainian 1 was enough to allow teachers hitherto unacquainted with the language to instruct those who could actually speak it. Professor Starchuk admitted that several years of instruction would be needed for such a purpose; nevertheless many people know a good deal of oral Ukrainian but are unable to write it and know nothing about Ukrainian literature. He believed that such people could profit from Ukrainian 1 and be able to teach first courses in Ukrainian as a result. One Council member said that this was an admission that the people who really could profit from Ukrainian 1 would not be beginning students and that Ukrainian 1 would not be a true beginning language. Professor Greene replied that Ukrainian 1 was seen as a beginning language, but agreed that the argument presented showed that there were many problems that practice alone could overcome. He still felt that the best way to start was with a beginning course.

It was asked if Ukrainian 1 could be restricted to Education students. The Dean replied that Council did not have the power to make such a rule, but that Council could always determine when to open the course to Arts and Science students.

The motion to introduce Ukrainian 1 as a course which could be offered at Summer School was then put and carried.

2. Business Arising from the Minutes.

A. Report of the Revisions Committee

For the information of Council, Professor Blackley reported that the following students had been awarded degrees at the November Convocation, on information not in the possession of the Faculty Revisions Committee at the time of the October meeting of Council. These, by virtue of power delegated by Council to the Revisions Committee had been sent forward to the proper authorities for final approval:

For the degree of Bachelor of Arts:

Bilko, William B.Ed.
CRowle, John Wilfred B.Ed.
Harvey, Donald Henry

For the degree of Bachelor of Science:

Beauregard, Michael Albert
Overbo, Edward William
Sanderson, Kenneth Frederick
Stinner, Arthur Otto
Sankeralli, Ainsley Rasheed
Wilkins, Arthur Albert
Helfenstein, Mrs. Marianne

B. Error in the April, 1958 Minutes on the Patterns Committee.

Council was informed that the minutes of its meeting of 7th April, 1958 contained the following statement:

"4. Patterns Committee

"The Dean informed Council that the terms of all the members of the Patterns Committee had expired unnoticed. He had approached several members of Council to ascertain their willingness to serve on this Committee and Professor Greene had agreed to act as Chairman again if such was Council's will. Professors Wyman and James had similarly agreed to act if nominated.

"It was moved by Professor Newbound and seconded by Professor Von Richthofen that the Patterns Committee be composed of Professors Greene, Wyman and James, with the first acting as Chairman."

This minute should be amended to read as follows:

(a) for "all the members" in the first line, substitute "three of the members";

(b) for "that the Patterns Committee be composed of ...acting as Chairman," substitute

"that Professor Greene be re-elected to the Patterns Committee, to act as Chairman

and that Professors Wyman and James be elected to replace the other retiring members".

It was moved by Professor Jones and seconded by Professor Trainor that the minutes be so amended.

The motion was carried.

C. Replacement for Professor Edward Moore on the Patterns Committee.

Since Professor Edward Moore was on sick leave from the University, it was necessary to find a replacement to fill his term (expiring in November 1959) upon the Patterns Committee. Accordingly, it was moved by Professor Folinsbee and seconded by Professor May that Professor Cormack be appointed to fill the remaining portion of Professor Moore's term.

The motion was carried.

D. Executive Committee.

It was moved by Professor Hardy and seconded by Professor Keeping, that Council approve the report submitted by a committee charged with formulating the terms of reference for the Executive Committee accepted in principle at the last meeting of Council. The Committee was also charged with the nominating of the initial members of that committee, and their term of office. Its report read as follows:

I. Terms of Appointment

The Executive Committee of the Council of the Faculty of Arts and Science shall consist of the Dean, the Secretary of the Faculty (ex officio), and four elected members, one from Division A, one from Division B and two from Division C. In addition, there shall be two elected alternate members, one from Divisions A and B and one from Division C.

On initial appointment, two of the elected regular members of the Executive Committee (one from Divisions A and B and one from Division C) shall serve for two years and the remaining two for four years. The selection of those retiring after two years will be made by lot and retiring members may be re-appointed at the discretion of Council. All future appointments to the Executive Committee shall be for a term of four years. Appointments shall run from 1st September.

If a regularly elected member of the Executive Committee shall retire before the expiration of his term, the remaining portion of his term shall be filled by a new appointee. Such vacancies shall be filled by the Dean on the recommendation of the remaining members of the Executive Committee, but vacancies caused by the retirement of members at the expiration of their term shall be the concern of a nominating committee selected by the Dean but making its recommendations to Council.

Alternate members shall be elected for a term of one year, beginning 1st September, in the manner of the regular members save that, in the years when no Nominating Committee is to be appointed, the Executive Committee shall make recommendations to Council.

II. Terms of Reference.

A. Preparation of Routine Material for Council

1. Calendar Changes.

The Executive Committee shall consider all course changes. It shall review the reports of the Committees on Honors and Patterns. It shall have the power to call in for consultation members of departments concerned with such matters and to make recommendations to Council.

2. Nominations.

The Executive Committee shall make recommendations to Council for the filling of vacancies in the regular committees of the Faculty of Arts and Science and also for such new committees (ad hoc-or permanent) as Council may authorize.

3. Council Agenda.

The Executive Committee shall review the agenda for meetings of Council.

B. Action on Authority Delegated by Council.

1. The Executive Committee may act for Council in certain special cases, when Council so directs.

2. The Executive Committee, for the Faculty Council shall approve all special registrations.

3. The Executive Committee, for the Faculty Council, shall approve the list of delayed graduands (receiving recommendations from the Honors Committee and the Revisions Committee) for transmission to General Faculty Council.

4. The Executive Committee shall hear all student petitions and make recommendations to the Faculty Council.

C. Unexpected Developments.

1. When necessary, the Executive Committee shall act for Council between Council meetings subject to subsequent ratification by Council.

2. The Executive Committee shall advise the Dean on all matters when requested.

D. General

1. The Executive Council, through the Secretary of the Faculty, shall circulate to all members of Council, a record of decisions taken and recommendations made. These will appear in the material circulated before the next meeting of Council.

III. Nominations

For the initial appointments to the Executive Committee, the Nomination Committee recommends:

A. Regular Members: Professor Ryan (Division A)
 Professor Hanson (Division B)
 Professor Brodie (Division C)
 Professor Wyman (Division C)

B. Alternate Members: Professor Greene (Divisions A and B)
 Professor Newbound (Division C).

Respectfully submitted, W.G. Hardy, Chairman, E.S. Keeping, R.B. Miller.

Professor Hardy informed Council that the report before Council contained the best suggestions that the Committee (of which he was the Chairman) had to offer. It produced the report with two things in mind, One was that the Executive Committee should expedite the work of Council by considering fully all technical matters. The other was that the decisions of the Executive Committee could be questioned by Council and even reversed if Council so desired.

The fear was expressed that the Executive committee might become a sort of super Arts Council, but Professor Hardy pointed out that the Committee would use only delegated authority and that it was always subject to review by the Council, which retained all its powers.

Professor Hardy explained that his Committee had felt the Dean must be the Chairman of an executive committee since one of its functions would be to assist him and he considered the possibility that elected members might be evenly divided in opinion, and concluded that, in such a case, no decision would be taken but that the matter in question would be referred to Council for full debate. The Secretary of the Faculty, he added, was ex officio only, without a vote: his presence was considered necessary as the holder of that office must know the Committee's decisions and through him, too, Council would be informed of the actions of the Executive Committee. Professor Hardy felt that such a Committee would be of great advantage in ironing out problems that greatly affected some but not all, departments, giving assurance to Council members not intimately involved that all sides of such questions had been examined.

The Dean reminded Council that this was a very serious proposal and offered to table the motion if any members wished further time for consideration. Since no member so wished the motion was put and carried.

E. Vending Machines

The Dean reported that he had written the President to transmit the views on vending machines expressed at the last meeting of Council. The President's reply stated that the machines do make a contribution to the food services, but the problems raised by Council will be investigated.

4. Expansion of the University of Alberta at Calgary.

Council turned to a discussion of the proposed extension of the Faculty at the University of Alberta in Calgary under "Stage I", as outlined in a memorandum approved by the Board of Governors. The Dean announced that the memorandum had been presented to General Faculty Council at its last meeting and the relevant portion had been referred to the Arts and Science Council without discussion.

Professor L.G. Thomas opened the discussion, since History seemed to be one of the Departments that would soon receive a limited autonomy at Calgary. He would like to see some distinction made between degrees granted in History at Calgary and those granted in History at Edmonton in pass programs as well as in Honors programs. The Registrar thought that it was likely that a student's transcript would show where he had taken his training. Professor Kreisel wondered if this meant that we would be giving "second class degrees". Professor Thomas said that the Calgary programs would be much more restricted in offerings than those in Edmonton. He was also disturbed about the offerings of the History Department at Calgary. Pre-Law, for example, would wish History 57; in all such cases, History offerings would be dictated by the needs of others than those in the History pattern.

The Dean suggested that Council consider the problem of course offerings. In the first place courses in Edmonton might differ from those in Calgary (a) because certain courses offered on the one campus might not be offered at the other and (b) because Calgary might deal with identical courses differently from Edmonton.

On this point, Professor Jones remarked that American Literature had been given at Calgary before it had been offered in Edmonton. Professor Watson, when he was in Calgary, had been competent to give such a course, while this was not true of any member of the Edmonton staff at that time. Edmonton, indeed, did not offer American Literature until Professor Watson came to this campus. Similar situations would be faced in other departments; courses would grow as staff was acquired. The important things to discuss now were whether or not Calgary and Edmonton courses would have the same examinations and the same numbers.

The feeling of Council was that Calgary was competent to set its own examinations

even in courses offered at the same time in Edmonton. This indeed might be wise since Calgary instructors must be free to teach their courses in the way that they felt to be best.

Professor Salter felt that these discussions were unreal in that they begged the basic issue - an adequate Calgary library. If the library was inadequate for a course, that course could not be given. He was disturbed that there was no word about library facilities in the abstract presented to Council or, indeed, in the whole memorandum. Calgary could not thrive "on a garret room with a few hundred books".

Professor Self agreed with Professor Salter that a good look was necessary at the miserable library facilities in Calgary. He thought that, at best, there were 20,000 volumes in all and that, amongst these, there was practically nothing pertinent for many desired courses. For the courses in American History, there were about twenty assorted volumes. Before any expansion, sums of money should be allotted for the books which must lie behind an expansion. He believed that the funds should be controlled by the departments concerned. When the Faculty of Arts and Science was begun in Calgary, the History allotment was very small in relation to the total allotted. He felt that Council should recommend that a sum of a quarter of a million dollars should be set aside for books as a prelude to expansion at Calgary.

Professor Guy informed Council that there would be a library building in 1961 or 1962, but if books to this extent were obtained the plans for the completion of this building might be moved forward.

It was moved by Professor Self and seconded by Professor Salter, that Council recommend that a substantial sum be allocated for the purchase of books, periodicals and other materials for the library and that expansion in Calgary should be dependent upon this grant.

Professor Scott thought that Calgary had been treated always as a Junior College and that the library and staff there had suffered accordingly. Therefore, he felt that Professor Self's motion was inadequate. Physicists needed to be assured of Honors courses and graduate work, with the facilities involved. At the moment there were two graduate courses in Calgary and one graduate student to give some slight incentive to the staff.

The Dean remarked that such matters were matters for departmental control but that the library was not.

Professor Hardy felt that to the motion in debate might be added that the amount of money should be extremely substantial since it would constitute an initial purchase.

Professor Scott asked if Calgary needs should be included in the requested report on books recently sent to departments. The Dean replied that this report was designed only to aid the building of facilities in Edmonton.

Some members of Council believed that the amount of money needed for books in Calgary would be \$250,000 to \$500,000. Professor Hanson observed that the amount could not be picked out of the air: time would be needed for an accurate assessment of needs.

It was pointed out by certain Council members that the library in Calgary would serve more than one faculty. The amounts discussed would be required for the Faculty of Arts and Science alone.

The motion of Professors Self and Salter was carried unanimously.

On the subject of curriculum, it was asked if patterns at Calgary and Edmonton should be identical. If not, should Calgary set its own patterns and courses?

Professor Salter felt that the principles of the memorandum were good but that many things, of necessity, must be guided by experience. Professor Scott hoped that Calgary instructors would be allowed to give their courses in their own way. They may need to give their own examinations. Such freedom was both inevitable and desirable. Professor Hanson felt that here was the crux of the expansion. He endorsed such freedom and the incentive which such freedom would provide to the Calgary staff.

Professor Jones suggested we allow Calgary a separate and independent existence immediately and be done with it, provided that the expansion was based upon a good Faculty of Arts and Science as a core. Calgary should be free to work out her own destiny and a rival Alberta university would do the university at Edmonton more good than harm. He hoped that the planners of the expansion might be persuaded to think in these terms. Professor Hanson concurred and thought that Calgary departments, even if small at first, should be set up at once and not in stages. They would take much of the pressure from Edmonton.

The Dean noted that immediate expansion would be difficult because of space problems. Real expansion must await the completion of buildings on the new campus. He felt that half a dozen departments might expand greatly in the very near future and a few might follow in the not too distant future. There would still remain, however, some departments for which this would not be the case for a considerable period - departments in which the patterns were small and expansion would involve expensive duplications for a very few students.

Professor Gibb stated that he was heartened by the widespread support in Council for the developments suggested in Calgary. This support would certainly help staff morale in Calgary and assist in the acquiring of new Calgary staff members.

It was moved by Professor Scott and seconded by Professor Hanson that Council should put on record its enthusiastic support for the development of the University of Alberta at Calgary as outlined in the abstract of the memorandum to the Board of Governors presented to this Faculty and its belief that Calgary should be permitted to move towards complete autonomy as quickly as possible.

The motion was carried unanimously.

5. Other Business

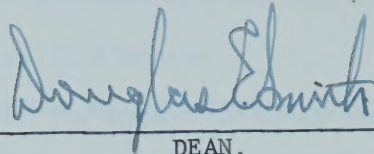
The Dean announced that the Arts and Science office had acquired a World Graduate Award Directory that could be consulted when desired. He also announced the details of the Nuffield Foundation Travelling fellowships.

Council was informed that the Registrar would like to receive requests for consolidated Christmas examinations desired by instructors of large classes or classes held in well-filled class rooms. The necessary forms would be sent to the Departments.

In order to facilitate the early printing of the Faculty Calendar, departments were requested to place all suggested course or program changes in the hands of the Dean not later than the 18 of November so that these could be ready for Council at its next meeting on 1st December. There was some discussion as to the advisability of getting the calendar printed elsewhere than the University Print Shop, normally clogged with

examination printing when the calendar went to it.

The meeting adjourned at 6:30 p.m.

A handwritten signature in blue ink, reading "Douglas Smith". The signature is written in a cursive style with a large, prominent "S".

DEAN.

The minutes of the 479th meeting of the Council of the Faculty of Arts and Science, which was held in the Senate Chamber, Monday, December 1, 1958 at 4:30 p.m.

Present were: Dean Smith in the Chair; Professors Axford, Baldwin, Bhatia, Blackley, Brodie, Cormack, Crichton, Crosby, Davis, Davy, Duggan, Folinsbee, Garland, Greene, Hanson, Harris, Harrold, Jacka, James, Jones, Keeping, Kennedy, Kreisel, McIntyre, McNamee, Mardires, May, Moser, Newbound, Nursall, Robinson, Ryan, Salter, Schiff, Scott, Spearman, Starchuk, Stelck, Thomas, Trainor, Von Richthofen, Whyte, Wonders, Prince (Calgary) and Mr. Cairns, the Registrar.

1. Minutes of the meeting of November 3, 1958.

The Dean pointed out an error in the minutes of the meeting of November 3, 1958.

Professor Harris had been in attendance, not Professor Horton. Professor May then moved that the minutes as circulated, be approved as amended. Seconded by Professor Kreisel.

The motion was carried.

2. Report of the Executive Committee

A. Calendar Changes.

The Dean Proposed to move slowly over the Report of the Executive Committee on the calendar material with minor changes accepted by amendment and controversial matter left to one side. It was moved by Professor Brodie, seconded by Professor Newbound that the Report of the Executive Committee regarding course changes be approved.

The Executive Committee recommends that the following calendar changes be approved:

Department of Botany

Changes in Course Descriptions

53. Algae, Lichens and Mosses

(3-3;3-3)

The structure, life histories and classification of the Algae, Lichens and Mosses with emphasis on native plants. Consideration is given to the evolution of these plant groups and to their role in nature.

Prerequisites: Botany 1a, 1b; or consent of instructor.

50. Flowering Plants

(3-3;3-3)

The origin and evolution of flowering plants; their morphology and classification; species concepts; plants in relation to their environment; principles of nomenclature.

Prerequisites: Botany 1a, 1b; consent of instructor.

55. Lower Vascular Plants

(3-3;3-3)

Evolution and morphology of the Pteridophyta and Gymnospermae, including extinct groups.

Prerequisites: Botany 1a,1b; or consent of the instructor.

103. Plant Geography and Ecology

(6L;6L)

A study of the distribution of plants over the earth's surface. Plant communities in relation to their environment. Throughout the course, studies relating to conservation, forestry and agriculture practices will be taken into consideration.

Prerequisites: Botany 50, 52 or consent of the instructor.

✓ 106. Advanced Taxonomy

(6L;6L)

Speciation and species problems in the flowering plants; cytotaxonomy and the use of experimental methods in taxonomy.

Prerequisites: Botany 50 or the consent of the instructor.

On pages 190 - 191:

- ✓ 51. Change last line to read: Prerequisites: Botany 1a,1b; or consent of instructor.
- ✓ 52. Second last line change to read: Prerequisites: Botany 1a,1b; Chemistry 35 or consent of instructor.
- ✓ 104. Under prerequisites, delete 50, 51, 53 and substitute 54.
- ✓ 105. Under prerequisites, delete 50.
- 107. Line 2 of paragraph, delete "with microscopic examination". Change prerequisites to Botany 51 or permission of instructor.

New Courses

5. Natural History of Alberta Plants

(3-3;3-3)

- * Basic features of plant structure, development and classification. Life habits of important plant groups with special reference to native plants and plants of economic importance. Outstanding characteristics of the vegetation of Alberta. Conservation topics.

54. Mycology

(3-3;3-3)

Introductory survey of the Fungi.

First Term: Systematic survey of structures, life cycle and classification of representative types.

Second Term: Physiology, cytology, genetics of fungi with emphasis on types of economic importance and types currently being investigated.

Prerequisites: Botany 1a,1b; or permission of instructors.

Note: Students in Agriculture may take the first term separately. All others must complete both terms.

✓ 56. Special Problems

(6L;6L)

Assigned reading or laboratory projects.

Prerequisites: one elementary and one senior course in Botany.

(* See amendment at the end of this report.)

Changes in Course Descriptions

- 1 or A. Introductory General Chemistry (3-3;3-3)
Lectures: An elementary introduction to chemistry illustrated by the chemistry of the metals, non-metals and of the carbon compounds.
Laboratory: Experiments related to lecture material.
52. Organic Chemistry
* Lectures: Continuation of the Study of the Aromatic and Aliphatic Compounds, General considerations and mechanisms involved in their reactions.
Text: Noller, Chemistry of Organic Compounds, or Brewster, Organic Chemistry.
Laboratory: Preparation of organic compounds.
Laboratory text: Gatterman and Willard, Laboratory Methods of Organic Chemistry, and Fieser, Experiments in Organic Chemistry.
Prerequisite: Chemistry 35, or 36 or 40 and 39 or 42.
Prerequisite or corequisite: Chemistry 53 or 54 and 58.
54. Elementary Physical Chemistry.
* Add kinetics to list of topics.
Texts: Millard, Physical Chemistry for Colleges, Daniels, Matthews, Williams, Bender and Alberty, Experimental Physical Chemistry.
Prerequisites: Chemistry 35 or 36 or 40; Physics 35 or 36 or 41 or 40; *Math. 40.*
For Honors students only, except by consent of instructor.
57. Inorganic Chemistry (2-3;2-3)
Lectures: A study of inorganic chemistry which includes the principles underlying the synthesis of less familiar compounds. Carbonyl, electron deficient, organo-metallic, and anhydrous compounds are included.
Laboratory: the preparation of some of the more unusual and difficult inorganic compounds.
58. Quantitative Analysis (2-6;2-6)
Lectures: Principles and methods of quantitative analysis.
Laboratory: Gravimetric, volumetric, colorimetric, and electrometric methods of analysis.
Prerequisite: Chemistry 35 or 36 or 40.
105. Instrumental Methods of Analysis (2-6;0-0)
Lectures: Theory and practices of instrumental methods of analysis.
Texts: Willard, Merritt and Dean, Instrumental Methods of Analysis.
Prerequisite: Chemistry 58.
Corequisite: Chemistry 53 or 54.
111. Gas Kinetics (3-0;0-0)
Empirical treatment of reaction rates, collision theory, transition state theory, chain reactions, some specific reaction mechanisms.
Text: Frost and Pearson, Kinetics and Mechanism.
Prerequisite: Chemistry 54, *or 53*
115. Chemical Thermodynamics (3-0;0-0)
Applications of the three laws of thermodynamics to chemical systems; thermodynamics of systems of variable composition.
Text: Klotz, Chemical Thermodynamics.
Prerequisite: Chemistry 54.

(* See amendments at the end of this report.)

116. Reduce time to (3-0;0-0)

New Courses

- ✓ 117. Quantum and Statistical Mechanics (0-0;3-0)
An elementary course in quantum and wave mechanics with applications to chemical problems, mechanics with chemical applications.
Text: K. Pitzer, Quantum Chemistry.

- ✓ 118. Solution Kinetics and polar (0-0;3-0)
The study of chemical reactions in non-polar/solvents; Debye-Hockel theory; primary and secondary salt effects; acid-base catalysis.
Texts: Frost and Pearson, Kinetics and Mechanisms.
References: Amis: Kinetics of Chemical Change in Solution.
Bell, Acid-Base Catalysis.
Hine: Physical Organic Chemistry.
Prerequisites: Chemistry 54 and either Chemistry 111 or Chemistry 114.

- ✓ 119. Physical Organic Chemistry. (0-0;3-0)
A discussion of selected topics in physical organic chemistry. A continuation of topics discussed in Chemistry 114.
* Prerequisite: Chemistry 114.

Department of Classics

Changes in Course Descriptions

- ✓ Latin 1 and A. Beginners' Latin (5-0;5-0)
This course is to enable students who enter the University without Latin to begin the study of this language in university. It is concerned with the essentials of grammar, syntax, the reading of easy Latin, and prose composition; a secondary emphasis is placed on the connexion of Latin with English.
Text: Miller, Introduction to Latin (University of Pittsburgh).

- ✓ 52. History of Ancient Greece. (3-0;3-0)
The story of the Hellenic world from its beginnings in the Minoan-Mycenaean civilizations of Crete and Greece until the time of Alexander the Great with special attention to the political organization of the city-state and the beginnings of democracy, and to cultural and economic development. Illustrated by slides.

Department of English.

New Course

- ✓ 72. English Drama from the beginnings to 1700. (3-0;3-0)

Department of Geology

Changes in Course Descriptions

- ✓ 101. Prerequisite: Consent of instructor.

- ✓ 102. Prerequisite: Consent of instructor.

(*See amendments at the end of this report.)

Department of Geology (continued)

New Courses

110. Advanced Mineralogy (0-6L;0-6L)
Study of minerals using petrographic, mineralographic, and X-ray techniques with a view to interpretation of problems. ✓
Prerequisites: Geology 54, Chemistry 53.
111. Regional Structural Geology (3-0;0-0)
The geological structure of certain areas in different parts of the world will be studied on a seminar basis. ✓
Prerequisite: Geology 57.
112. Pleistocene Geology (0-0;3-0)
Pleistocene history of both glaciated and nonglaciated areas, especially North America, Europe and the Mediterranean region. The effects of Pleistocene climatic changes on soils, biogeography and archeology. ✓
Prerequisites: Geology 59, or instructor's permission.
113. Field Work in Geomorphology and Glacial Geology
Mapping of surficial deposits and landforms of selected areas in central Alberta. ✓
One day of field work each week.
Prerequisites: Geology 59 or equivalent.
114. Rock Analysis (1-3;0-0) or (0-0;1-3) ✓
The quantitative chemical analysis of silicate rocks. Problems in sampling, solution, separations and final determination of the constituents are discussed.
Prerequisites: Chemistry 58 or the instructor's permission.

Department of History

Changes in Course Description ✓

53. Medieval Europe (3-0;3-0)
The rise and development of medieval institutions.
54. Europe 1453 - 1648 (3-0;3-0)
Europe in the age of the Renaissance and Reformation.
55. Social and Economic History of Europe (3-0;3-0)
Emphasizes the period since the middle of the 18th century.
57. English Constitutional History (3-0;3-0)
Prerequisite: History 78 or consent of the instructor.
58. Canada (3-0;3-0)
A survey of the political and social history of Canada.
60. The United States (3-0;3-0)
A survey including the colonial period.
62. Russia (3-0;3-0)
The political and social development of Russia, with emphasis on the period since 1861.
71. Europe, 1648 - 1815 (3-0;3-0)
European history from the Treaties of Westphalia to the Congress of Vienna.

74. Europe, 1095 - 1305. (3-0;3-0)
The history of Europe from the First Crusade to the residence of the Popes at Avignon.
(This course offered at St. Joseph's College as a senior B option.)
77. France (3-0;3-0)
The political and social development of France.
107. Philosophy of History and Historiography. (3-0;3-0)
Open to graduate students only.

Delete: History 56, 59, 61, 65, 66, 67, 70, 72, 73, 75, 76, 106, 106c, 106d.

New Courses

78. Britain (3-0;3-0)
A survey of the history of Britain and the Commonwealth.
79. The Germanic Peoples (3-0;3-0)
80. Europe since 1815 (3-0;3-0)
81. The Far East (3-0;3-0)
82. Latin America (3-0;3-0)

Honors and Graduate Courses.

100. Special Subject.

Not later than the beginning of his third year the Honors student in consultation with the Department will select a special subject to be studied under the guidance of a member of the Department for the ensuing two years. He will have weekly conferences with his instructor and will be assigned written work including a minor thesis based upon primary source materials.

- | | |
|--|---------------|
| (1) Chaucer's England | F.D. Blackley |
| (2) The Reformation | P. Brock |
| (3) France or New France under the Old Regime | W. Eccles |
| (4) A period in the history of the American West | W.D. Farnham |
| (5) The transformation of Russia since 1861 | R.H. McNeal |
| (6) The political history of the Canadian West | L.G. Thomas |
| (7) Other approved special subjects. | |

108. Medieval Europe (3-0;3-0)
109. The West Slavic Peoples since 1800 (3-0;3-0)
110. The Age of Louis XIV (3-0;3-0)
111. The Age of the Enlightenment (3-0;3-0)
112. The French Revolution (3-0;3-0)
113. Europe 1815 - 1870 (3-0;3-0)
114. Europe since 1870 (3-0;3-0)
115. Russia since 1861 (3-0;3-0)

116. Medieval Britain (3-0;3-0)
117. England under the Tudors and Stuarts (3-0;3-0)
118. Britain in the 19th Century (3-0;3-0)
119. Canada during the French Regime (3-0;3-0)
120. Canada 1763 - 1867 (3-0;3-0)
121. The Canadian West (3-0;3-0)
122. The Westward Expansion of the United States (3-0;3-0)
123. The Far East (3-0;3-0)
124. Latin America (3-0;3-0)
125. Slavonic & Soviet Studies: an interdepartmental seminar (3-0;3-0)
200. Conference Course: open to Graduate Students only. Directed study in special subjects to meet individual requirements. ✓

Department of Mathematics

Changes in Course Description

47. Algebra (3-0;3-0)
- Logical reasoning. Elements of set theory. Permutations and combinations. Binomial theorem. Probability. Vectors and matrices. Linear transformations. Number systems. Scales of notation. ✓
- Prerequisite or corequisite: Mathematics 1.
- Text: Introduction to Finite Mathematics, Kemeny, Snell and Thompson, (Prentice Hall, 1957). Reference Books: Higher Algebra, Hall and Knight (Macmillan); Fundamental Concepts of Algebra, Merserve, (Addison-Wesley, 1953).

New Course

63. Numerical Analysis (2-3;2-3)
- Formulation of vector and matrix equations. Methods for solution of these equations and determination of eigenvalues. Solution of polynomial equations. Error-control. ✓
- Finite-difference operators and applications. Interpolation (direct and inverse); the use of tables of mathematical functions. The representation of differential and integral operators by difference and summation operators. The solution of initial-value problems and boundary-value problems by difference methods. Consistency, convergence, and stability, of difference approximations to differential or integral equations.
- Prerequisite or corequisite: Mathematics 57 or equivalent.

Department of Modern Languages

French

Changes in Course Descriptions

Page 112: Under French 1 or A, note: Delete last sentence. ✓

112: New title for French 2: First Year University French.

Page 113: Under French 53, delete "Su" and "Note". Substitute regular description.

Page 114. French 111: New description:

An honors or graduate course designed to meet the needs of individual students.
It will consist of a detailed study of some great author or literary question
not dealt with in the other honors or graduate courses.

New Courses

104. Chansons de geste and Romans courtois	(3-0;3-0)
105. Semantics, Lexicography and Linguistic Geography	(3-0;3-0)
106. Stylistics as applied to French Literature	(3-0;3-0)
108. Rabelais	(3-0;3-0)
109. Ronsard	(3-0;3-0)
110. The Spirit of Humanism in France and England at the Beginning of the Renaissance	(3-0;3-0)
112. Montaigne	(3-0;3-0)
113. The French Moralists	(3-0;3-0)
114. Molière	(3-0;3-0)
120. The 18th Century Novel	(3-0;3-0)
121. Marivaux	(3-0;3-0)
122. Voltaire	(3-0;3-0)
123. Rousseau	(3-0;3-0)
125. Stendhal	(3-0;3-0)
128. Literature and the Plastic Arts from the time of Delacroix and Baudelaire	(3-0;3-0)
130. The Late 19th Century Theatre	(3-0;3-0)
131. The Naturalistic Novel	(3-0;3-0)
132. Maupassant	(3-0;3-0)
133. Franco-German Literary Relations during the 19th Century	(3-0;3-0)
140. Valéry	(3-0;3-0)
141. Proust	(3-0;3-0)

German

Changes in Course Descriptions

Page 114: under German, paragraphy 2, add "and proceed to German 50 or 54."

Page 114: delete paragraph 3.

Page 114: change paragraph 4 to read: "Students entering the University with preparation in German other than German 30 of the High School should consult with the Department regarding the assessment of their standing."

1a or A. Beginners' German

(3-2;4-1)

This course is designed to impart, on the introductory level, an active, practical skill in the use of the spoken and written word. The oral approach will be stressed, using material from everyday life situations, easy cultural readers, slides, charts, maps, etcetera.

- * The Department's language laboratory will be used for drill and will also be available to students for individual practice.

1b. Scientific German

2. First Year University German

(3-1;3-1)

This course is devoted to the development of the student's ability in speaking, reading and writing German, using modern short stories, cultural readers and visual aids.

The Department's language laboratory will be used for drill and practice.

Prerequisite: Matriculation German or German 1 or their equivalent. (To be determined by a placement test).

40a. Intermediate German

(3-0;3-0)

This course aims at a high level of accomplishment in German pronunciation, composition and conversation. It will include grammar review and expansion, practice in the spoken language, written exercises and, through the texts selected, an introduction to the literature and culture of Germany.

The course is not open to students with credit, or registered, in German 2.

40b. Advanced Scientific German

(3-0;3-0)

Reading of advanced scientific and technical texts, supplemented by a systematic and thorough discussion of grammatical difficulties and "trouble makers" in German scientific literature. The use of the dictionary. Analyzing compound words into their component parts. Technical terms. Abbreviations, reading of general texts and articles from major fields of science. Students who pass German 40b with a mark of 65% or better will be considered by the Department as having fulfilled the reading requirement in German for the Ph.D.

Prerequisite: German 1 or German 2 or their equivalent (to be determined by a placement test).

115. Seminar Courses.

Delete (f), (i), (o), and (p) under literature, and delete (c) under Philology and re-letter.

Add, under literature: Anglo-German literary relations from the 16th to 19th centuries.

New Courses

100. Special Reading Course

(3-0;3-0)

Specifically designed for graduate students who wish to prepare themselves for the Ph.D. language requirement in German. The course consists of an intensive study of essential grammar, reading of graded texts and translation of texts selected from the students' own fields. Conducted on a tutorial basis.

Graduates who obtain a mark of 65% or better will be considered by the Department as having fulfilled the reading requirement in German for the Ph.D.

Not open to undergraduates.

50. Survey of German Literature (3-0;3-0)
 A general survey, a study of selected periods and of major works of German literature. A review of grammar, oral and composition work.
 Prerequisite: German 2 or the consent of the Department.
 (Note: Not for Honors students. May be taken in first year by students with German backgrounds.)

Russian

Changes in Course Descriptions

- 1a. Beginners' Russian (Arts Section) (5-0;5-0)
 This course is elementary and is designed to give a working knowledge of the Russian language. It provides a study of the essentials of grammar, reading and drill on useful expressions.
- 1b. Beginners' Russian (Science Section) (3-0;3-0)
 A course designed to meet the needs of Honors students in science departments, students of the Faculties of Agriculture and Engineering of any year, and graduate students who require a reading knowledge of Russian scientific texts. Students will be given credit in this course but are recommended to take the sequent course, Russian 40b, in which advanced scientific texts are read. Science students in the general course may also register in Russian 1b but will be required to complete Russian 40b before credit will be granted in Russian 1b.
- 40a. Second Year Russian Authors and Grammar (3-0;3-0)
 Intermediate Russian grammar, practice in the spoken language, written exercises. Reading of selected texts of the 19th century: Pushkin, Kuprin, Korolenko, Lermontov, Nekrasov and others.
 Composition based on Chekhov's stories.
 A continuation of Russian 1a.
51. Survey of the History of the Eastern Slavonic and Russian Literatures (3-0;3-0)
 Oral literature, the first writings, literature from the epic The Tale of Igor's Expedition of the 12th century up to and including Classicism, Romanticism, Realism and the influence of the Naturalistic School. Social and political background.
 Advanced Russian grammar, conversation and composition.
 Reading of the texts of the 19th century with composition based on short stories by Pushkin, Lermontov, Gogol, Turgenev, Dostoevsky, Chekhov, and L.N. Tolstoy.
 Prerequisite: one senior Russian course.
57. Russian Drama (Formerly Russian 115d) (3-0;3-0)
 History of the Russian Drama and a critical reading of five classics: Krylov's The Lesson to the Daughters (Urok dochkam), Griboyedov's Woe from Wit (Gore ot Uma), A.N. Ostrovsky's The Thunderstorm (Groza), Gogol's The Inspector General (Revisor) and Chekhov's The Cherry Orchard (Vishnevyy sad).
 Prerequisite: one senior Russian course or a first-class mark in Russian 1.
103. The Russian Psychological Novel (3-0;3-0)
105. Introduction to Comparative Slavonic Philology (3-0;3-0)
109. Russian Poetry of the 18th and 19th Centuries (3-0;3-0)
110. Soviet Russian Literature (3-0;3-0)

New Courses

40b. Second Year Russian (Science Section)

(3-0;3-0)

Advanced Russian grammar, vocabulary building, written exercises. Russian scientific articles of current interest will be provided, discussed and translated. This course will provide students from science departments with a suitable working knowledge of Russian and prepare them to meet the reading requirement in Russian for the Ph.D.

72. Russian Literature of the Late 19th and Early 20th Centuries (3-0;3-0)

This course will cover the new literary movements of the period (the religious philosophers, mystical revolutionism, the aesthetic revival and the symbolists, socialist messianism) up to and including the principles of Socialist Realism of Soviet literature, with particular attention to the works of L.N. Tolstoy, Merezhkovsky, Ivanov, Blok, Bely, Balmont, Sologub, Remizov, Gumil'ev, Mayakovsky, and others.

Prerequisite: Two senior courses in Russian.

Honors and Graduate Courses

107. Early Eastern Slavonic Literature

(3-0;3-0)

111. Conference Course

This is an honors or graduate course to meet the needs of individual students. It will consist of a detailed study of some great author or literary problem, directed reading and discussion. Courses offered: Pushkin, Lermontov, Gogol, Turgenev, Nekrasov, Dostoevsky, L.N. Tolstoy, Chekhov, Gorky. With the permission of the Department, any other suitable subject may be studied in this course.

Spanish

Changes in Course Descriptions

40. Second Year Authors and Grammar

(3-0;3-0)

Spanish and Latin American authors from the late 19th century to our times. An intensive study of syntax and phonetics.

New Courses

51. Spanish Literature of the Golden Age

(3-0;3-0)

Celestina; Novela picaresca, Cronistas de Indias, Araucana, Romancero, Libros de Caballerias, Quijote.

Prerequisite: Spanish 40.

55. Spanish Drama and Lyric Poetry to 1850

(3-0;3-0)

Their development from the early stages to the Romantic period studied in the main texts.

Prerequisite: Spanish 40.

(not offered 1977-78)

Honors and Graduate Courses

102. Practical Study of the Spanish Language

(1-0;1-0)

Practice in pronunciation and Spanish speech patterns. Facilities of the language laboratory will be used. Students will be required to take Spanish 102A in the second year of the Honors program, Spanish 102B in the third and Spanish 102C in the fourth.

110. History of the Spanish Language (3-0;3-0)
120. The Poem of the Cid (3-0;3-0)
125. Early Spanish Prose (3-0;3-0)
130. Contemporary Spanish Poetry (3-0;3-0)
135. Modern Spanish and Latin American Novelists (3-0;3-0)

Linguistics

Course Changes

50. General Linguistics (3-0;3-0)
- An introduction to and a survey of the field of language and languages dealing with the fundamentals of structural and historical linguistics. Topics discussed include language families, types of languages, linguistic change, linguistic structure. Emphasis will be placed on modern European languages. Required of students reading for Honors in Modern Languages or French and Latin.

Department of Philosophy and Psychology

Changes in Course Descriptions

Philosophy

61. Logic, Semantics and Scientific Method.
Change title to 61. Logic.

Psychology

52. Social Psychology (3-0;3-0)
- A study of the emergence of personality in various social interaction situations; analysis of the relationship of individual and social group. Consideration of the forces underlying the development of the social order, with special attention given to crowds, mobs, panics, manias, cults, fashions, fads, social ideologies.. Prerequisite: Psychology 40 or Sociology 40 or equivalent.
58. Psychology in Relation to Human Welfare (3-0;3-0)
- The applications of psychology in fields of common interest to the humanities and social sciences, with special reference to: education; child training; vocational selection, training and guidance; mental hygiene; social and industrial relations; and political-social values.
59. Experimental Psychology (3-0;3-0)
- An introduction to the methods and principles of experimental investigation in psychology with laboratory participation in demonstrations and exercises. Prerequisites: Psychology 40 and Psychology 53.
104. Advanced Experimental Psychology (3-3;3-3)
- The methods and principles of experimental investigations in psychology in relation to fundamental theoretical problems. The laboratory work will familiarize the student with basic research design and procedure, and will afford an opportunity for independent investigation. Prerequisite: Psychology 59.

New Courses

53. Behavioral Statistics (3-3;3-3)
 * The application of statistical methods to the evaluation and interpretation of behavioral research data.
 Prerequisite: Psychology or Sociology 40 or equivalent.

Department of Political Economy

Economics

New Course

106. Seminar in Slavonic and Soviet Studies (3-0;3-0)
 An interdepartmental seminar.

Political Science

Changes in Course Descriptions

Delete Political Science 56. Federal and Local Government.

New Courses

65. International Affairs in the 20th Century (3-0;3-0)
 A study of international affairs since 1900 with special emphasis on the growth and decline of the League System and the creation of the United Nations.

Honors and Graduate courses

103. Federal and Local Government (3-0;3-0)
 A reading and seminar course in the operation and problems of federalism and in the organization, functions and problems of local government.
 Prerequisite: Political Science 54 or the consent of the instructor.
104. Seminar in Soviet Politics (3-0;3-0)
 An advanced study of several areas of Soviet domestic politics.
 Prerequisite: Political Science 60 or the consent of the instructor.
106. Seminar in Slavonic and Soviet Studies (3-0;3-0)
 An interdepartmental seminar.

Department of Physics

Changes in Course Descriptions

108. Advanced Problems in Geophysical Exploration (2-0;2-0)

New Course

115. Advanced Earth Physics (2-0;2-0)

Sociology

Changes in Course Descriptions

(*See amendments at the end of this report.)

52. Social Psychology (3-0;3-0)
A study of the emergence of personality in various social interaction situations; analysis of the relationship of individual and social groups. Consideration of the forces underlying the development of the social order, with special attention given to crowds, mobs, panics, manias, cults, fashions, fads, social ideologies, social movements, and other forms of mass behaviour.
Prerequisite: Psychology 40 or Sociology 40 or equivalent.
55. Criminology and Penology (3-0;3-0)
A critical examination of the causes of crime and juvenile delinquency, with an analysis of the social processes leading to criminal behaviour; the evolution and evaluation of theories of punishment, the law and the courts, penal and reformatory institutions, probation and parole. A consideration of the various experiments in reform and rehabilitation.
60. Minority and Ethnic Group Relations (3-0;3-0)
A study of the problems arising from racial and minority status. An analysis of the sources of prejudice, current theories of race and culture, and the effect of interracial and minority group contacts. An examination of critical situations requiring adjustment and social treatment.

New Courses

61. Social Science Research Methods (3-2;3-2)
Study and application of the various research techniques used in sociology and related social sciences, with special emphasis on interviewing, questionnaires, attitude scales, sociometric testing, surveying and sampling.
62. Population and Human Ecology (3-0;3-0)
A study of population and its composition, with special reference to trends in Canada. Class, occupational, and rural-urban differences with respect to population changes. The problem of human migration. The second half of the course focuses on the ecological processes and patterns related to the distribution of population.
63. Social Class in Modern Society (3-0;3-0)
An analysis of social stratification in western society, with reference to the effects of industrialization, and including comparative analysis of primitive societies. Special attention given to the basis of stratification, the structure and function of social class systems, social mobility and to special classes in modern society, such as the "managerial class", labor, and "power elite", etc.
64. Cultural Anthropology (3-0;3-0)
A study of the evolution of prehistoric cultures in the old and new world; the organization of the life and thought of primitive peoples as evidenced in family, clan, and political relationships, economics practices, religion, art, mythology, folklore and social customs.

Honors and Graduate Courses

105. Conference Course in Sociology for Honors and Graduate Students (3-3;3-3)
Arranged for various topics of sociology on the basis of special interest and need. Consent of instructor required.
113. Seminar in Industrial Sociology (3-0;3-0)
Analysis of selected aspects of industrial situations as they relate to the work group and its place in the industrial complex.

115. Seminar in Social Psychology (3-0;3-0)
Special problems in social psychology for students with an interest in social psychology, and strong background in psychology.

Department of Zoology

Changes in Course Descriptions

105. Comparative Animal Histology and Basic Microtechnique (6L;6L)
The essentials of histology are presented from a zoological standpoint. Invertebrate as well as vertebrate materials are used. Students study both living and preserved tissues, and learn to make their own slides.
Prerequisites: Zoology 51 and 52.

New Courses

59. Vertebrate Physiology (3-3;3-3)
* A course designed for Zoologists, comprising a study of the physiology of vertebrate organ systems. Classical and modern laboratory experiments in physiology; familiarization with essential physiological methods.
111. Comparative Animal Physiology (2-5;2-5)
Organization and diversity of animal functions; nervous and endocrine integration; metabolism; environmental relations; reproduction, growth and metamorphosis.
Prerequisites: Zoology 51, 52; Zoology 59 or Physiology 61; Biochemistry 50.
Biochemistry 50 may be taken as a corequisite with the instructor's permission.
112. Limnology (6L;6L)
A laboratory and seminar course in advanced fresh water biology.

Ukrainian

New Courses

Junior Course

1. Beginners' Ukrainian (5-0;5-0)
This course is elementary and is designed to give a working knowledge of the Ukrainian language. It provides a study of the essentials of grammar, reading, and drill on useful expressions.

Senior Course

40. Second year Ukrainian Authors and Grammar (3-0;3-0)
Review and continuation of the study of Ukrainian grammar, practice in the spoken language, written exercises.
Reading of selected texts of the 19th and 20th centuries.
Composition based on short stories.
A continuation of Ukrainian 1.

The Committee approves the following recommendations of the Department of Modern Languages:

That Ukrainian be offered as a second Slavonic language in the Department of Modern Languages.

That it be open to students registering in the Foreign Language pattern, with the proviso that pattern students be permitted only one Slavonic language.

That it be open to students registering in the Honors program in Modern Languages as a second Slavonic language.

Comments: the second motion is designed in part to provide for students who wish to go on to a B.Ed. after the B.A. and who wish to study foreign languages offered in the school system.

If Ukrainian 1 is offered, it would be desirable to offer the second year at the same time, since it is likely that some students would be found, upon examination, to be prepared to enter at a higher level. Such students would take Ukrainian 40 in place of Ukrainian 1.

At least two further courses in Ukrainian would have to be offered in further years.

* * * * (End of the Executive Committee's report on calendar changes.) * * * *

It was moved by Professor Brodie and seconded by Professor Whyte that Botany 5, an accepted course in Education, not be at this time allowed as a course in Arts and Science.

The Dean pointed out that some B.Ed. people who transfer from Education to Arts and Science have a credit in this course which, at this time, cannot be used for credit in Arts and Science. There are others who have credit in it in Education who wish to continue with a B.A. after a B.Ed.: Botany 5 is not accepted as one of the required thirteen courses before the six senior course rule can be applied.

The amendment was passed.

Professor Salter wished to know if Botany 5 for Education students and Botany 1a, 1b for Arts students meant the old principle of a "soft course" for one faculty and a "hard course" for another. Professor Brodie said that this was not so: Botany 5 was just as hard a course as Botany 1a, 1b, but it was different in content and one could not be regarded as the equivalent of the other. Professor Kenædy, who teaches Botany 5, explained that this course had been devised for Education to assist prospective Biology teachers. In it there was some stressing of native plants with a little classification and taxonomy not to be found in Botany 1a, 1b. She felt that before the course was thrown open to all, Education should be consulted.

The Dean noted that the Department of Botany could accept Botany 5 under "consent of the department" for advanced Botany courses. This did not mean that Botany 5 would be substituted for Botany 1a, 1b, but rather that a senior course in Botany would be substituted for it.

Professor Davis stated that the time for Chemistry 52 is (3-3;3-3) and that for Chemistry 54 is (3-1s-3;3-1s-3). Since Chemistry 54 is for honors students, it was being made more intensive than Chemistry 53.

Professor Davis stated that his department wished the inclusion of Chemistry 151 and 152, not recommended by the Executive Committee, as approved courses. If Council insisted, his department said that they could give a pass or fail. Chemistry 151 was to be a seminar for Graduate Students and for Honors Students in general topics; Chemistry 152 could be an advanced seminar on specific topics.

Professor Newbound said that he had consulted the Department on behalf of the Committee and arranged that, if Chemistry did not agree with the action of the Committee, the matter of the seminars could be brought before Council. Professor Brodie stated that similar seminars were used in Agriculture where the marks were carefully arrived at; some of the mark was given for the paper and some for discussion. Professor Davis asked if the seminar in Chemical Engineering 102 did more than give a pass or a fail. The Registrar could not give this information.

It was moved by Professor Davis, and seconded by Professor Harris that Chemistry 151 and 152 be re-inserted in the motion with the times (2-0;2-0). The amendment was carried.

Professor Davy noted that some of the course descriptions include texts. This, the Dean replied, was for information only: it was assumed that Council was not approving texts or instructors, since these were departmental matters.

Professor Axford wondered if many of the courses under discussion (for example French) involved too much concentration within a specialized area. Should we provide students with such narrow courses? Do they provide sufficient intellectual challenge? Could so much time be spent on such limited subject areas? Professor Greene replied that the authors noted were all major writers whose works can supply problems that are a challenge to the student.

Professor Starchuk suggested that the notes appended to German 1 or A and German 2 implied that the Department's language laboratory was not equally available to students of Russian, Spanish, etc. Professor Greene agreed that this was an oversight. It was moved

by Professor Starchuk and seconded by Professor Greene that the note be removed from individual courses and placed at the beginning of the departmental offerings. The amendment was carried.

A warm debate ensued over the proposed course in Psychology 53 (Behavioral Statistics). Professor Keeping felt that Mathematics 45, which draws its illustrations from a wide variety of fields, was a much more desirable course. Professor Mardiros said that, in the opinion of all the psychologists in his department, Mathematics 45 was unsuitable for the purposes of the department. In many American Universities, such a course was given for students in both Psychology and Sociology. Professor James stated that what was desired was not a course in mathematical statistics but one in the use of the research methods available to the Psychologist or Sociologist. For that purpose, examination of data to be interpreted was just as important as the mathematical basis of statistical operations. Mathematics 45 did nothing for this and consequently was not the course that his department wished.

Some members of Council felt that for the proper use of statistical methods one must have a thorough grounding in mathematics. Professor Salter wished to know if Mathematics 45 was a prerequisite to Educational Statistics and the Statistics used in Agriculture. He was told that Mathematics 45 in one case and Mathematics 3 in another were prerequisites.

Professor Keeping moved, and Professor Axford seconded that this course be referred back to the Executive Committee for further exploration.

Professor James stated that the proposed course was not supposed to be a substitute for Mathematics 45. It was a course for the purposes stated. No student could take both courses in the short program of 15 courses and it was his opinion that the needs of the students for whom it was designed were better served by it than by Mathematics 45. Other members believed that the proposed course would enable students to read statistical material intelligently but wondered whether this was enough. It certainly would not enable them to work out new statistical formula for themselves.

The amendment was carried, and the proposed course referred back to the Executive Committee.

Professor Wonders queried the title of Sociology 61 (Social Science Research Methods) and wished information on the content of Sociology 62 (Population and Human Ecology).

Professor James replied that courses similar to Sociology 61 bore either the suggested title or "Social Research Methods". The course was designed to give information on various research techniques and had been so designated, since he hoped that it would be of value not only in Sociology but in allied fields. He had no objection to "Research Methods" as a title as long as it was clear that, as the instructor, he had no intention of examining^{all} research methods. He pointed out that the course had no prerequisite.

Professor Wonders moved, seconded by Professor Cormack, that "Social Sciences" be removed from the title of the proposed Sociology 61. The amendment was defeated.

Regarding "Population and Human Ecology", Professor James stated that some of the principles were taken from biology and applied by analogy to the location of population and the changes in population location. The course had something in common with the course on the Human Community but was much more analytical. Professor Wonders said that he was satisfied with this explanation and that the subject covered by the proposed course was obviously one of interest to a number of disciplines. Each, no doubt, could treat it according to its own emphasis.

Professor Thomas wondered if Sociology 64 (Cultural Anthropology) was not too close to Classics 55. (Primitive Human Culture). The Dean noted that Anthropology has several aspects. One is archaeological (Classics 56), one is physical (concerned with human evolution and with anatomical variations) and one is social and cultural (the proposed new course).

Professor Nursall reported that the prerequisite of Zoology 51 had been omitted for the proposed course Zoology 59 (Vertebrate Zoology) whose hours were (3-3;3-3).

The Dean suggested that the proposals for the courses in Ukrainian might be separately debated, but there was no request to do so. Professor Jones wished to know if his proposal meant that we are now recognizing Ukrainian as a Grade XII language of matriculation. Professor Greene said that this was another matter entirely. The Dean reminded Council that, before a subject is accepted for matriculation, the whole matter must be approved by Council, go before the Joint Committee to Coordinate University and

High School curricula, and be decided by General Faculty Council.

The motion of Professors Brodie and Newbound to approve the course changes, as amended above, was carried.

B. Report of the Honors Committee

It was moved by Professor Thomas and seconded by Professor Nursall that the report of the Honors Committee be approved as follows:

General Statement

Delete the second, third and fourth paragraphs and substitute:

"Some departments provide a special first-year program for students who wish to take honors, although in most departments the difference between the honors program and the general course does not appear until the second year. Permission to take a first-year honors program is granted to students with high matriculation standing with the approval of the department concerned. Application for this privilege should be made through the head of the department at the time of registration. A student who, in his first year, takes one of these special programs and fails to make the standing necessary for continuance in honors, or decides not to attempt honors, must continue in an appropriate pattern of the general course and must subsequently complete all the requirements of that pattern. The special first-year programs are so designed that a student can proceed in this way without penalty, by some adjustment in the second and third years.

"Students with satisfactory standing may proceed from the first year in a pattern of the general course to the second year of the honors program. A student desiring * to do so must apply through the head of the department to the Dean, during his first year and not later than the time of registration for his second year.

"Promotion from first year to second year, as well as from second to third and third to fourth, is by recommendation of the department concerned, for which an average of 65% or higher is usually required. A student who is not recommended to continue honors at the end of his second year will be transferred to the general course. He must arrange his program to comply with the general regulations."

"Pre-Honors" should be deleted where it occurs on page 44, in the prescription for Honors Biochemistry and on page 53, in the prescription for Honors Physics and Honors Physics and Geology.

Page 44, change "3" to read: German 1b or Russian 1b. is permitted for credit as an approved option in any year.

Department of Biochemistry

Add to Fourth Year: Attendance at the Departmental Seminar is required.

Department of Chemistry: Proposed Program.

First Year: Chemistry 35, Chemistry 39 or 42, Mathematics 1 or 5, Physics 35, English 2 or Physical Education.

Second Year: Chemistry 54, and 58, Mathematics 40, Physics 43, an option from Division A or B, (note: if a language is started in this year, it must be continued next year).

Third and Fourth Years: The equivalent of ten full courses will be required. These must include German 1b or Russian 1b; Mathematics 52 or 57; Chemistry 102, 105, 106, 109, 111, 114, 115, 116, 117, 118; and one other half course in Chemistry. Two open options are permitted.

In addition to the regular course examinations, candidates for the honors degree may be given one or more oral or written examinations in the field of chemistry at the end of the fourth year.

Attendance in the Departmental Research Seminar, Chemistry 151, which meets once a week, is required in the fourth year.

Note: All options shall be selected after consultation with the Department.

Department of Geology

Fourth Year: Change "Geology 55, Geology 59, three options", to "Geology 55 and three or four options to be selected in consultation with the Department".

Department of History: Proposed Program.

Students proposing to read for Honors in History should consult the Head of the Department at the time of their first registration. Registration in the first year of Honors is similar to that in the History pattern, but should include a foreign language. Students who wish to transfer to Honors at the beginning of the second year should consult the Head of the Department.

The degree of Bachelor of Arts with Honors in History is awarded on the following basis:

- (1) Comprehensive examinations written at the end of the fourth year in the following fields of historical study:
 1. North American history.
 2. The history of Britain and the Commonwealth
 3. Europe before 1789.
 4. Europe since 1789.
- (2) Examination, oral and written, at the end of the fourth year, in a special historical subject chosen by the student not later than the beginning of his third year. In connection with this he will be required to write a minor thesis utilizing primary source material.
- (3) Satisfactory completion of approved courses in two other fields of study chosen in consultation with the Head of the Department, e.g. English, Philosophy, Political Science, a second language. At least two courses must be taken in each of the two fields chosen.
- (4) Proof of ability to read a modern language other than English.

Students in the third and fourth years are expected to select most of their courses from among the Honors and graduate courses offered by the Department. Normally Honors students in History take five courses a year. They are expected to pursue a course of reading during the summers. This is arranged with the Department in connection with preparation for the comprehensive papers and the special subject. No final examinations are taken in history courses at the end of the fourth year when the comprehensive papers are written.

Department of Mathematics: Proposed Program in Honors Mathematics.

First Year: Mathematics 1 or 5, Mathematics 45 or 47, Physics 35, one option from Division C, one option from Division A or B, Physical Education.

Second Year: Mathematics 40, Mathematics 41, Mathematics 45 or 47, one option from Division C, one option from Division A or B.

Third Year: Mathematics 57. One approved mathematics option (usually from Mathematics 51, 56, 61, 62, 107). Three options, at least one from another department.

Fourth Year: Mathematics 102. Two approved mathematics options. Two options, one of which should be from Divisions A or B.

Notes: The program must be approved by the Department of Mathematics. Students who hope to do graduate work in Mathematics should select two of the open options in third and fourth year from Mathematics or Mathematical Physics.

The A or B options may include beginners' language courses such as German 1b or Russian 1b.

Department of Mathematics: Proposed program in Honors in Applied Mathematics.

The B.Sc. degree with Honors in Applied Mathematics may be taken by students who wish to specialize in mechanics, including hydrodynamics, aerodynamics, elasticity, or relativity.

First Year: As above.

Second Year: As above. The C option should preferably be Physics 46.

Third Year: Mathematics 57, Mathematics 56, an approved Mathematics option. An approved Physics option (preferably Physics 53). An option from Physics or Mathematics.

Fourth Year: Mathematics 102, Physics 102, an option from Division A or B. Two approved options from Mathematics or Physics (preferably from Mathematics 104, 105, 108, 109, or Physics 101, 104, 105). Note: The program must be approved by the

Department of Math. The A or B options may include beginners' language courses such as Ger. 1b & Russian 1b

Department of Philosophy and Psychology: Proposed Program in Sociology.

Degrees with Honors from the Department of Philosophy and Psychology:

Add to list: (5) B.A. with Honors in Sociology and approved minor subject.

(6) B.A. with Honors in Sociology and Psychology.

* These paragraphs to be inserted after the paragraph beginning "Honors in Psychology will require eight to ten courses...":

"Honors in Sociology will require eight to ten courses in Sociology. Depending on the special interests of the student, five or six courses in a related minor subject will be taken. An additional five or six courses outside the fields of Sociology and the minor area will be required to complete the program.

* "Honors in Sociology and Psychology will require seven courses in Sociology and seven in Psychology. In addition, six courses will be required to complete the program."

Slavonic and Soviet Studies

Students wishing to undertake a program of Slavonic and Soviet studies should register for Honors in History, Modern Languages, Economics or Political Science, depending on the area of concentration desired. By choosing his options according to the course requirements set out by an interdepartmental committee, a student may qualify to have the notation "Slavonic and Soviet Studies" added to his record upon satisfactory completion of his whole program.

Delete footnotes on pages 51 and 54.

Department of Zoology: Proposed Program.

The Honors program of the Department of Zoology is designed primarily to provide a broad knowledge of biology in preparation for advanced study towards higher degrees and a research or academic career. To a limited extent the program can be fitted to individual needs. A final comprehensive examination will test the student's general knowledge of biological facts and principles.

Students choosing to enter the Honors program should make themselves known to the Department as early as possible during their first year of study. The Honors program must be drawn up in consultation with members of the Department.

Provision for summer employment of Honors students in biological work can usually be made. During their senior years it is expected that Honors students will assist as demonstrators in elementary laboratories.

First Year: Zoology 1, Botany 1a, 1b, Chemistry 35, Mathematics 1 or 5, English 5s or 2, Physical Education.

Second Year: Zoology 51, Chemistry 42, Physics 1 or 36 or 35, Genetics 51, an A or B option (French 2 recommended).

Third Year: Zoology 52, another senior Zoology, Biochemistry 50, an approved Division C option, an A or B option, an option (German 1b or Russian 1b recommended).

Fourth Year: 3 senior Zoology courses, an approved Division C option, an A or B option.

The Honors Committee recommends that:

the honors program in Conservation Biology be discontinued. Students now registered in that program may complete it, or may transfer to an Honors program in Botany or Zoology. No new registrations in this program should be approved.

The Executive Committee recommends of the adoption of the report of the Committee on Honors, but with the following suggested amendments:

(Note: the sections marked * in the Honors Committee report are those referred to below.)

- (a) General statement, second paragraph, line three:
"preferably during his first year" for "during his first year".
- (b) Department of Chemistry: Proposed Program:
Second Year: "(Note: if a language is started in this year, it must be continued in the third year)" for "(Note: if a language is started in this year, it must be continued next year)".

Third and Fourth Years: "These must include German 1b or Russian 1b if not taken earlier;" for "These must include German 1b and Russian 1b;".
- (c) Department of History: Proposed Program:
First paragraph, line four: "Students who wish to enter Honors" for "Students who wish to transfer to Honors".
- (d) Department of Philosophy and Psychology: Proposed Program in Sociology:
Line four: "These paragraphs to be inserted after the paragraph beginning 'The B.A. will be awarded...'", for "These paragraphs to be inserted after the paragraph beginning 'Honors in Psychology will require eight to ten courses...'",

Line eleven: "In addition, six other courses" for "In addition, six courses".

It was moved by Professor Newbound and seconded by Professor Greene that the report of the Honors Committee be amended in accordance with the report of the Executive Committee as above.

There was some debate on the value of amendment (a) in the report of the Executive Committee which, one member felt, was not as clear as the original suggestion. Professor Thomas said that he did not feel this to be so and much preferred the amendment

The amendment to the report of the Honors Committee was carried.

The amended report of the Honors Committee was carried.

C. The Report of the Patterns Committee

The Patterns Committee recommends to Arts Faculty Council, for its approval, the following changes:

1. Experimental Psychology

Second Year: Change "Psychology 59" to "Psychology 53".

Third Year: Change "Psychology 63" to "Psychology 59", in line 1. Add "or Psychology 63" to line 2.

2. Mathematics

First Year: Math. 1 or 5, Math. 43 or 45 or 47, Chem. 35 or Physics 35, C option, English 2 or 5.

Second Year: Math. 40, Math 41 or 43 or 45 or 47, special A or B course, two options at least one from Division C.

Third Year: An approved senior Mathematics course (such as Math. 51, 54, 56, 57, 61, special A or B course, three options, at least one from Division C.

(Approved with the deletion of the following note: Not more than one option may be in Mathematics.)

3. Sociology

First Year: Sociology 40, English 2, Psychology 40, a junior option from Division B or a language option, a science or mathematics course.

Second Year: Sociology course, Sociology 52 or Philosophy 52, an option from Division A or B, an option from Division B, a science or mathematics course.

Third Year: Sociology 50 or 53, Sociology 52 or Philosophy 52 or an approved option, a senior option from Division B, an option, a science or mathematics course.

4. Drama

Second Year: Drama 53 or Drama 55, one of Drama 40, 51 or 52, English 53, an approved option, a science or mathematics course.

Third Year: Drama 55 or Drama 53, one of Drama 40, 51, or 52, an approved A or B option, an option, a science course or a mathematics course.

5. General Science Pattern

First Year: Chemistry 35, Physics 35 or 36 or Physics 1, Mathematics 1, 3, or 5, Botany 1a, 1b, or Zoology 1, English 2 or 5, Physical Education.

Zoology

First Year: Zoology 1, Botany 1a, 1b, Mathematics 1 or 5, Chemistry 35, English 5s or 2, Physical Education.

Second Year: Zoology 51 or 52, Chemistry 42, Physics 1 or 36, an A or B option, an approved Division C option.

Third Year: Zoology 51 or 52, another senior Zoology, an A or B option, an approved Division C option, an option.

P. 58, under B.A. patterns, add to the paragraph starting "For the Second Year": "...or Genetics 51 or Microbiology 60".

Add to the paragraph starting "For the Third Year": "...or Biochemistry 50 or Physiology 61".

P. 64, under B.Sc. patterns, special A or B courses:

Delete Sociology 40, 54, 55, etc and substitute: "Any senior Sociology course".

Respectfully submitted:

L.G. Thomas, A.T. Elder, R.L. James, R.G.H. Cormack,
E.J.H. Greene, Chairman.

The Executive Committee recommended the adoption of the report of the Patterns Committee with the proviso that the term "option" be clearly delineated.

The Executive Committee recommended that the term "an option", where it appears in the patterns, should be construed as a course freely chosen by the student, provided that he has any necessary prerequisites or corequisites; that "an approved option" be an option approved by the department directing the program of the student concerned.

The Executive Committee further recommended that this statement be placed amongst the General Course Regulations, and the regulations regarding "Degrees with Honors in the Faculty of Arts and Science".

Report

It was pointed out that section one of the Patterns Committee/(relating to Experimental Psychology) must be deleted since Council had not approved of the proposed course in Psychology 53 (Behavioral Statistics).

Subject to this change, it was moved by Professor Greene and seconded by Professor James that the report of the Patterns Committee be adopted.

The motion was carried.

The Dean pointed out that the Executive Committee had suggested, in connection with the report of the Patterns Committee, a definition of "option" and "approved option". That this definition, contained in the circulated material, be adopted was moved by Professor Ryan and seconded by Professor Newbound.

It was asked if this motion was adopted, those patterns specifying "an open option" should now specify "an option". Council agreed that this was so.

The motion was carried.

D. The Combined Course Leading to the Degrees of B.A. and LL.B.

The Dean explained that this proposal had been worked out in conjunction with the Faculty of Law.

The Executive Committee recommended the adoption of this program which, if accepted, should require that History 57 have as a prerequisite "History 78 or the consent of the instructor". The History Department concurs in such a prerequisite.

First Year: English 2, Latin 2 or French 2 or German 2, Economics 1 or Political Science 3, History 8, a science or mathematics course.

Second Year: No student may enter the second year of the combined course unless he has successfully completed the first year with an average of not less than 60%. Four areas of concentration are allowed:

1. Two of Economics 61, 65, 66, 67, or 69.
History 78 (British History)
Senior English or senior language
Approved B or C option

- * 2. Two of Political Science 54, 56, 59, 63.
History 78
Senior English or senior language
Approved B or C option

3. History 78
Approved senior History
Approved senior Economics or Political Science
Senior English or senior language
Approved B or C option

4. Two senior English courses (normally chosen from 51, 52, 53, 59, 63, 64)
History 78
Approved senior Economics or Political Science
Approved B or C option, or a senior language

Third Year: History 57 and the prescription for first-year Law.

Fourth Year: The prescription for second-year Law. The degree of B.A. may be granted at

Fifth Year: The prescription for third-year Law. the end of the 4th year.

Promotion from second to third year of the combined course is contingent upon an average of at least 60% in the second year and second class standing in at least four courses, two of which must be in the second year.

Professor Davy noted that Political Science 56 was no longer offered and Council agreed to substitute in its place Political Science 58.

The proposal evoked considerable debate. Professor Jones felt that

students in the English area of concentration should be allowed to choose any course that they wished. One member asked who approved the courses selected by students in the combined program. The Dean replied that Council had been asked to appoint a Committee to undertake this task, and had decided not to do so. The responsibility was thus left with the Dean's office and exercised by the Faculty Secretary.

Professor Blackley gave some account of the negotiations with the Faculty of Law and pointed out that Law had a certain type of English course in mind for the combined course student. He also noted that the Dean of Law had wondered if an approach through a specialization in Philosophy might not be possible but had expressed himself as satisfied with the proposals as contained in the circulated material. The Dean remarked that all combined courses represented compromises, and that they usually imposed many compulsory courses to compensate for the reduced period of training. A student who wished greater freedom could take the two degrees separately.

It was moved by Professor Mardiros and seconded by Professor James that the proposal be referred back to the Executive Committee for further consideration.

The motion was carried.

Special Case

The Dean called attention to the following report on the special case of Mr.

Brian Harry Gibson:

Mr. Gibson for graduation needs a pass in a senior Zoology course. To meet this requirement, Mr. Gibson has twice attempted Zoology 53 but failed the regular and supplemental examinations in each case. He now lives in KEnora, Ontario.

The Executive Committee agreed to allow Mr. Gibson to repeat Zoology 53 extramurally, in the 1959-60 session, in accordance with section (c) of the regulations dealing with Supplemental and Deferred Examinations (p.70, 1958-59 calendar composite), the Department of Zoology consenting. Mr. Gibson was to be warned that he might be required to withdraw from this course at any time if his work was not considered satisfactory. He was also to be advised that he should consider the possibility of presenting an acceptable equivalent course taken in the regular way from a recognized university rather than taking Zoology 53 extramurally.

A decision had been reached by the Executive Committee exercising powers delegated to it by the Council. Mr. Gibson had not been informed of the decision and Council might still change that decision. Council accepted the decision as made.

3. Other Business

A. Department of Geography.

The Dean announced that new course proposals and new Honors programs had come from the Geography Department, too late for inclusion in the circulated material, for the consideration of the Executive Committee, or for the approval of the Committee on Honors. Supplementary sheets containing details of these proposals had been handed out at the beginning of the meeting.

It was moved by Professor Wonders and seconded by Professor James that the following new courses in Geography be adopted:

74. Western Canada (3-0;3-0)
A study of the resources, patterns of development and regions of Western Canada. The emphasis will be upon the developed parts of the Prairie Provinces and British Columbia. Prerequisite: one of Geography 1, 50, 51, or consent of the instructor.
75. Weather and Climate (3L-0;3L-0)
A systematic study of weather processes and phenomena, regional weather patterns, climate classification and types and weather observation techniques. The laboratory work will include the interpretation of weather and climatic maps and study of local weather patterns.
Prerequisite: Geography 1 or consent of the instructor.
Note: This is a C division course.
76. U.S.S.R. (3-0;3-0)
The regional geography of the Soviet Union.
Prerequisite: consent of the instructor.
77. Geography in Planning (2L-1s;2L-1s)
This course will cover selected historical, theoretical and practical aspects of land use planning in various parts of the world. Physical and cultural aspects of planning projects and problems will be considered; techniques appraised.
Prerequisite: consent of the instructor.
102. Mediterranean Lands. (3L-1s;3L-1s)
A general survey of the geographical characteristics of those lands bordering the Mediterranean Sea will be followed by a series of more detailed studies for comparative purposes.
Prerequisite: consent of the instructor.
101. Reading and S^Eminar Course
103. Air Photo Interpretation (6L;6L)
A study of the physical and cultural geography depicted on vertical and oblique air photos. Interpretation techniques, field use of photos and the elements of photogrammetry.
Prerequisite: one of Geography 1, 50, 52, or consent of the instructor.
104. Scandinavia (3-1s;3-1s)
The regional geography of Norway, Sweden, Denmark and Finland. Aspects of the historical, economic, and political geography of the area also will be included.
Prerequisite: consent of the instructor.

120. Research in Regional Geography

121. Research in Physical Geography

The motion was carried.

It was moved by Professor Wonders and seconded by Professor James that the following new honors programs in Geography be adopted:

The Department offers both the B.A. and the B.Sc. degrees with Honors in ^EGeography. Students wishing to stress the humanities and social sciences should register in the B.A. program; those who wish to stress the physical and biological sciences should register in the B.Sc. program.

B.A. with Honors in Geography

First Year: Geography 1, English 2, one junior course from Division b, one A or B option, one science or mathematics course, Physical Education.
 Second Year: Geography 50, Geography 52, one of Geography 51, 73, or 75, two approved options.
 Third Year: Geography 70, one of Geography 51, 71, 73, or 74, three approved senior options.
 Fourth Year: Geography 101, one of Geography 72 or 76, three approved senior options.

Students are required to have a reading knowledge of French or German. At the end of the fourth year a candidate for honors will be required to take an oral or a written examination in the field of geography.

B.Sc. with Honors in Geography

First Year: Geography 1, English 2 or 5, Geology 1, one of Botany 1a, 1b, Zoology 1, one of Mathematics 1 or 5 or 45, Physics 35 or 36, Chemistry 35, Physical Education.
 Second Year: Geography 50, Geography 52, one of Geography 51, 73, or 75, two approved options from Division C.
 Third Year: Geography 70, one of Geography 51, 71, 73, or 74, one approved option from Divisions A or B, one approved option in Geology, one approved option from Division C.
 Fourth year: Geography 101, one of Geography 72 or 76, one approved option in Geology, one approved option from Division c, one approved option.

Students are required to have a reading knowledge of French or German. At the end of the fourth year a candidate for honors will be required to take an oral or a written examination in the field of geography.

Professor Wonders explained that in the B.^sc. degree a certain concentration in Geology was absolutely necessary but that other science areas would depend upon the interest of the student. Professor Scott suggested that, if Physics was to be one of these other areas, the first year should be amended to read Physics 35 or 36 at least. This was agreed.

In reply to a question, the Dean stated that a reading knowledge in French ~~and~~ or in German might be obtained in many ways, including formal courses in the language chosen. If this method were adopted, Professor Greene wished to add Russian. Professor Wonders replied that his department selected French and German as the two languages since students

ought to read the classical treatises on Geography in French and in German. Much current work was being done in Russian, but he was concerned more with the classical treatments.

In answer to a further question, Professor Wonders said that the approved options would depend upon the interests of the individual students. If three options were possible, he saw no reason why one should not be a "free" option.

The motion was carried.

B. Department of Physics

Professor Scott moved, seconded by Professor Newbound, that Physics 103a (1-0;1-0) Molecular Spectroscopy, be approved retroactively for this year only.

The motion was carried.

C. Miscellaneous

The Dean noted to Council that at the Calgary meeting of the staff in Arts and Science and Engineering a unanimous vote of thanks had been passed thanking this Council for its support of development at Calgary in Stage I.

The Dean reminded Council of the General Faculty Council decision to renumber courses. The decision that Departments should so do and refer their problems to the GFC Committee on this subject was not, for this Faculty, practicable. He suggested that there were problems that must be ironed out by the Faculty. One important problem was the nature of the courses numbered 40 to 49, where there should be uniformity of treatment. Perhaps a junior course should be a course without prerequisites. What about senior courses in first year and junior courses in other years? Undoubtedly there would be considerable discussion necessary in the February meeting of this Council.

Departmental renumbering should be submitted to the Dean's office not later than 12th January for consideration by the Executive Committee and the G.F.C. committee before the meeting of Council on 2nd February. Difficulties encountered by Departments should be reported to the Faculty members of the G.F.C. committee, Professors Blackley and Newbound.

The Dean announced that he had in his office the details of fellowships that might be of interest to the Faculty: the Shell Oil Co. Graduate Fellowships in Science and in Engineering, the Annual National Research Council Award material and Fellowships given by the Fisheries Research Board.

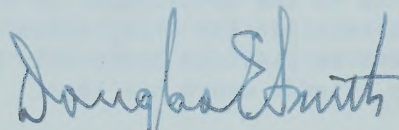
Professor Scott rose to say that a change in the third year of the Physics

attern, submitted by the Physics Department did not appear in the circulated material and had not been approved. This was the substitution for Mathematics 57 of "Mathematics 57 or an approved C option". Most students would select Mathematics 57 but ~~that~~ the approved division option was provided for a few special cases. The Dean apologized for the oversight.

It was moved by Professor Scott and seconded by Professor Newbound that this change in the Physics pattern be approved.

The motion was carried.

Council adjourned at 6:21 p.m.



DEAN

The minutes of the 480th meeting of the Council of the Faculty of Arts and Science, which was held in the Senate Chamber, Monday 2nd February, 1959, at 4:30 p.m. Present were: Dean Smith in the Chair, Professors Axford, Baldwin, Bhatia, Blackley, Brodie, Collier, Cormack, Crosby, Davis, Davy, Duggan, Elder, Folinsbee, Fostvedt, Garland, Gibb, Grayson-Smith, Greene, Hanson, Harrold, Hocking, Jacka, James, Jones, Keeping, Kennedy, Kreisel, McIntyre, McNamee, Mardiros, May, Moser, Newbound, Nursall, Salter, Scargill, Schiff, Scott, Spearman, Spencer, Starchuk, Stelck, Thomas, Trainor, Von Richthofen, Watson, Whyte, and the Registrar.

The Dean noted with deep regret the sudden death of Dr. Samuel Strong, Assistant Professor of Sociology. Professor Mardiros read the following tribute to Dr. Strong:

"Samuel M. Strong died suddenly on Saturday, January 24, 1959. Although he had been a member of the staff of this University only since September, 1958, he had already made great contributions to the life of the campus and to the development of his discipline--sociology. He was a source of great intellectual stimulation to his colleagues, an inspiration to his students, and he provided leadership for the community in several important areas. His many friends mourn his loss.

"Born in England in 1906 to Roumanian parents, Dr. Strong received his elementary and secondary education in Roumania. He emigrated from there to Canada, then to the United States, where he attended Brown University for one year. He left the University for a time, but returned, and graduated, in sociology, with highest honors. After two years of work at the University of Chicago, where he worked under W. Lloyd Warner as a research associate, he received the Ph.D. in 1940. In the several years that followed, he had teaching appointments at Howard University, the University of Minnesota, Tulane University, MacAlester College, the University of Nebraska and Carleton College. At Carleton, he headed a vigorous department in one of the better liberal arts colleges in the United States.

"At all of these places Dr. Strong was active and productive, in research, in study, and in community affairs. As evidence of this, he leaves behind a dozen penetrating articles, over fifty important book reviews, and contributions made on a large number of research committees connected with the work of the American Sociological Society, the Society for the Study of Social Problems, and other professional groups. Such was his work, that he was known to, and a friend of, many of the more important figures in American and Canadian sociology. He leaves behind him a permanent influence for good in the lives of his friends, colleagues and students."

By unanimous standing vote Council approved the inclusion of this tribute in the minutes.

Dr. Hanson read the following note of regret on the resignation of Dr. Andrew Stewart as President of the University:

"Andrew Stewart came to the University as Lecturer in Political Economy in 1935. He rose through the ranks to become President in 1950. In the course of these fifteen years he demonstrated the highest of capacities as teacher, scholar, researcher, administrator, public servant and citizen. His high ability and experience in the ranks in practically all the activities which university members undertake made him an ideal choice for the presidency. As a colleague he was a stimulating thinker, wise counsellor, sound administrator and good friend. As president he displayed and developed these traits in ever-increasing measure.

"It was with the deepest regret that we heard of President Stewart's departure from Alberta and the University. Our consolation is that we were able to keep him here for 23 years. His services have been invaluable and this Council will always remember him with respect and affection. We wish him well in all of his future endeavors."

Council voted unanimously that this be included in the minutes.

Dr. Newbound expressed the pleasure of Council on the appointment of Dr. Walter H. Johns as Dr. Stewart's successor in the following words:

"The Faculty of Arts and Science wishes to record its pleasure with the appointment of Walter Hugh Johns as President of the University of Alberta.

"Our feelings are strengthened by the fact that Dr. Johns has passed through the ranks in our Faculty, becoming its Dean from 1952 to 1957. As a result of this he has acquired a feeling for the growth and expanding purpose of the University which it would be difficult to obtain otherwise.

"Dr. Johns' devotion to the University is well known and we wish him many years of good health and satisfaction in his new position."

Council again voted unanimously that this should be recorded in the minutes.

1. Minutes of the Meeting of 1st December, 1958.

It was moved by Dr. Spencer and seconded by Dr. Scott that the minutes of the last meeting of Council be approved as circulated.

The motion was carried.

2. Business Arising from the Last Meeting

(a) Combined course for B.A.-LL.B.

It was moved by Professor Jones and seconded by Dr. Cormack that the proposed new combined course for the B.A.-LL.B. (as amended after referral to the Executive Committee) be approved as follows:

✓ First Year: English 200, Latin 200 or French 200 or German 200, History 210, Economics 200 or Political Science 200 or Philosophy 240, a science or a mathematics course.

Second Year: No student may enter the second year of the combined course unless he has successfully completed the first year with an average of not less than 60%. Five areas of concentration are allowed:

1. Two of Economics 310, 330, 340, 350 or 370.
History 350.
Senior English or senior language.
Approved B or C option.
2. Two of Political Science 310, 320, 330 or 350.
History 350.
Senior English or senior language.
Approved B or C option.
3. History 350.
Approved senior History.
Approved senior Economics or Political Science.
Senior English or senior language.
Approved B or C option.
4. Two approved senior English courses.
History 350.
Approved senior Economics or Political Science.
Approved B or C option, or a senior language.
5. Two approved senior Philosophy courses.
History 350.
Senior English or senior language.
Approved B or C option.

Third Year: History 450 and the prescription for first-year Law.

Fourth Year: The prescription for second-year Law. The degree of B.A. may be granted at the end of the fourth year.

Fifth Year: The prescription for third-year Law.

Promotion from second to third year in the combined course is contingent upon an average of at least 60% in the second year and second class standing in at least four courses, two of which must be in the second year.

The motion was carried.

(b) New Course in Behavioural Statistics

The Dean informed Council that the proposed course in Behavioural Statistics, returned at the last meeting of Council to the Executive Committee for further study, had there been debated at some length. A meeting had been arranged between representatives of the departments concerned with the

result that the Department of Mathematics agreed to offer a half course in statistics to be followed by a half course in the application of statistics given by the Department of Philosophy and Psychology.

It was moved by Professor Keeping, and seconded by Professor Mardiros that the two new courses be approved in the following form:

305. Introduction to Behavioural Statistics (3-3;0-0)
(A half-year course designed for students in Sociology and Psychology whose program does not permit them to take Mathematics 255.)

Classification and measurement. Frequency distributions. Graphical representation. Median and quartiles. Arithmetic mean. Variance. Standardized variates. Probability and relative frequency. The binomial and normal distributions. Curve fitting. Normalized scores. Relation between sample and population. Testing of statistical hypotheses. Confidence intervals. The t-test and F-test. Covariance. Regression and prediction. Significance of correlation. Non-parametric tests - use of chi-square distribution. Four fold contingency tables.
Textbook: Elementary Statistical Analysis, S.S. Wilks, (Princeton Univ. Press)

334. Behavioural Statistics (0-0;3-3)
The applications of basic statistical concepts to the evaluation and interpretation of empirical data in psychology and sociology.
Textbooks: McNemar, Psychological Statistics (2nd Edition)
Siegel, Nonparametric Statistics
Prerequisite: Mathematics 305, to be taken in the 1st term.
Note: A half-year course designed for students of Psychology and Sociology.

There was some debate over the number of the half course proposed by the Department of Mathematics. This, initially, was suggested as 205: Dr. Keeping explained that, since the proposed half course would contain much less statistical material than old Mathematics 45 (whose new number was suggested as 255), it should have a lower number than this full course in statistics. Professor Mardiros pointed out that, when taken with the proposed Psychology 334, a full course would be presented that warranted a number in the three hundreds. Dr. Keeping then stated that he would not object if the proposed half course in Mathematics bore the number 305.

The motion was carried.

3. Report of the Honors Committee

The Dean stated that since the Honors Committee could not meet

in time for the inclusion of certain desired amendments to the Honors programs in the business of the February meeting, he had referred them to members of the Honors Committee by mail. The Executive Committee had also reviewed them. Some modifications were proposed in the Biochemistry submission; and the revised programs were referred directly to Council.

(a) Proposed new Honors Program in Biochemistry

Dr. Collier presented the following proposed Honors program in Biochemistry, designed to permit some specialization in either plant or animal biochemistry:

In the Honors program in Biochemistry opportunity will be given, in the choice of options, for concentration in various areas of Biochemistry.

First Year (beginning 1959-60)

Chemistry 230, Chemistry 250, Mathematics 200 or 201, Physics 240, English 200 or 210 (or the language of matriculation), Physical Education.

Second Year (beginning 1960-61)

Botany 201 or Zoology 220, Chemistry 312, Mathematics 304, Physics 340, an option from Division A or B (German 110 or Russian 110 recommended).

Third Year (beginning 1961-62)

Biochemistry 300 or 350, Chemistry 372, Chemistry 450 or 550, one C Division option, one option from Division A or B.

Fourth Year (beginning 1962-63)

Two graduate half-courses in Biochemistry, Advanced Laboratory in Biochemistry (course number not yet assigned), three options.

Students wishing to major in Animal Biochemistry must take Biochemistry 300 and 400 and Physiology 361. Those wishing to major in Plant Biochemistry must take Botany 201 and 320, and Biochemistry 350. Other combinations of courses will be considered. Recommended C options for third and fourth year include: Biometrics 454, Chemistry 670, Genetics 451, Mathematics 420, Microbiology 360, Zoology 300. All course programs must be approved by the Department. Students are advised to have a reading knowledge of French and German. Attendance at the departmental Seminar is required in the fourth year. Students may be required to take a comprehensive oral examination at the end of the fourth year.

It was moved by Dr. Collier and seconded by Dr. Spencer that this new program for Honors Biochemistry be approved by Council.

The motion was carried.

Dr. Starchuk noted that while the recommended option from Division A or B in the second year of the proposed program was either German 110 or Russian 110, students were advised to have a reading knowledge of both French and German. Should this not read "two of French, German or Russian"? Dr. Collier replied that, while he was prepared to allow a student to take Russian 110 as his A or B of second year if this was his wish, the major periodical sources for biochemical research were in French and in German and not in Russian. For that reason he could not support the suggested amendment of Dr. Starchuk.

The motion was carried.

(b) Proposed changes in the Honors Economics and Political Science Programs

It was moved by Dr. Hanson and seconded by Professor Davy that the proposed changes in the Honors Economics and Political Science programs as they had appeared in the report of the Executive Committee be approved by Council.

Dr. Starchuk asked if, considering the interest of the Department of Political Economy in Russia, that the requirement of each program for "two courses in foreign languages, preferably French or German" might not be amended to read "two courses in French or German or Russian."

The mover and the seconder of the motion agreed to this proposal; the motion then read as follows:

Proposed changes in Honors Economics Program

1. On page 167 of the general calendar under Second Year delete the following:
"Mathematics 3 or 45 or 43".

Insert the following:

"Mathematics 255".

2. On page 168 under Third and Fourth Years add the following:

"Unless they have been taken in the First and Second Years, the following courses are required: Two courses in French or German or Russian (either two courses in one language or one in each of two languages); Accounting 200; Mathematics 200 or 201.

Proposed changes in Honors Political Science Program

1. On page 167 of the general calendar under Third and Fourth Years add the following:

"Unless they have been taken in the First and Second Years, two courses in French or German or Russian are required. Students may take either two courses in one language or one in each of two languages."

The motion, as amended, was carried.

4. Report of the Executive Committee

(a) New courses and changes in course descriptions

The Executive Committee recommended the approval of the new courses and changes in course descriptions contained in its report (attached to the official minutes).

The recommendations of the Executive Committee were approved.

(b) Report of the Executive Committee on the Renumbering of Courses

The Dean noted that, because of a clerical error, old Physics 55B (Advanced Seminar) had been omitted in the report of the Executive Committee. The Executive Committee had approved the change of number of this course from 55b to 571.

It was moved by Dr. Scott and seconded by Dr. Hanson that Council approve the report of the Executive Committee on Course Renumbering.

Dr. Keeping requested that the report be modified by a change of the proposed number of the Theory of Finance from 220 to 250 and of the proposed number of Astronomy from 250 to 253. Both these courses were often taken in the second year by students and for that reason his department suggested the higher numbers.

Dr. Folinsbee requested that the report be further modified by

changing Mining Deposits (Metal Mining) from 360 to 460, Geology of Petroleum, Natural Gas and Coal (Coal Mining and Petroleum Engineering) from 361 to 461, and Photogeology from 362 to 462. Only the course in Photogeology was an Arts and Science course.

With these amendments, the report was carried.

The Dean suggested that, if Council did not object, a good deal of time could be saved if the minutes of the present meeting did not include the fourteen sheets on renumbering which were already in the hands of Council members. He proposed that only amendments to these sheets be noted in the circulated minutes and that the report would be appended to the official copy of the minutes.

Council approved of the suggestion of the Dean.

(c) The Registrar's proposal for Study of Grading Methods

The Dean noted that the Executive Committee had received from the Registrar a recommendation that a Committee be appointed by the President or Deans' Council to study the relative merits of a system of "processing" examination results that would include certain features which he outlined, or ones of a similar nature. The features outlined by the Registrar had already been circulated to members of Council and would be appended to these minutes.

The Executive Committee having read the Registrar's suggestions recommended that the whole question of grading be referred to General Faculty Council with the suggestion that it be carefully considered by a special committee of that body. The Committee felt that the time was opportune for such a consideration inasmuch as the University was now changing its course numbering system.

A lively debate ensued on the proposals of the Registrar and the recommendation of the Executive Committee.

Considerable misgivings were felt by some Council members on the suggested weighting of courses by hours. An Arts course should be as time-consuming as any science course, even one with an attached laboratory: Arts

courses, therefore, should carry as many grade points as science courses. It would be a mark of maturity, one member felt, when this University ceased to judge a course by work done only in classroom or laboratory and assessed it on what a student was required to do, either under supervision or alone, to complete it successfully.

The basic question was posed, "Is Council interested in any sort of weighting scheme at all?" Before the present methods are abandoned should not Council know their major faults and receive some assurance that a new system would be an improvement? One Council member did not believe that there would be an improvement: he had marked under a system similar to that proposed by the Registrar and thought it to be "just as bad as the one we use."

Certain difficulties in the proposed scheme were discussed.

The system seemed too rigid for those in honors programs. There would always be borderline cases requiring individual decisions: no allowance seemed to be made for these. The system seemed to treat students in the mass, and not as individuals: this disturbed many members of Council. If a number of candidates for a scholarship had each received an A in all subjects, how could a choice be made between them? In the suggested scale there appeared to be "Average to good students" and "Very good students" but no "Good students:" surely "Good students" cannot be classed as "Average."

One member wished to know if students who scored consistent A's could graduate with fewer courses than those who did not. He was informed that American colleges set a minimum course requirement. Poor students, however, might need more courses to graduate than very good ones.

The Registrar noted that his report contained illustrative material only: Council, however, was considering this material as if it was an integral part of a fully worked-out scheme. This was not the case and his wish only was for a committee to explore possibilities.

The present system was unsatisfactory, he felt, because of the size of the university. The time that could be spent on revisions of grades at a small university was not practical in what this university is fast becoming - a large university. The university needed a system that would "process" marks quickly on a statistical basis. He envisaged departments sending out the results of individual examinations both to the students and to his office. A student would know, therefore, that he had failed one examination but not that he had passed or failed his year until he was so informed by the Registrar. Since a student could fail a course under certain conditions and still pass his year, there would be no need for faculty revisions committees. He liked this aspect of the proposed scheme: marks would not be tampered with and each department would regain its autonomy as far as grades were concerned.

To his suggestion that "Average to good" could be taken as mean from which the other grades in a course evolved, one Council member replied that there was no time for such a statistical study in the rush of marking. This suggestion, said another, was nothing less than a proposal to work out university marks "on a curve" which would produce the disastrous results we all deplore in Grade XII examinations.

When asked if this system was adopted, would instructors hand in numerical marks or letter grades, the Registrar replied that, during a transitional period, the first would be the case. Later, he hoped that departments would submit letter grades.

On the question to what extent was a system such as the one proposed used in other universities, the Registrar replied that many American universities utilized variants of his illustrative material. Some use was made of it at the University of Saskatchewan which has a merit point system based on the unit value of a course to produce a weighted average.

It was moved by Professor Brodie, and seconded by Professor Collier that Council approve the recommendation of the Executive Committee.

The motion was defeated by a vote of 21 to 20.

(d) Renumbering of Courses for the Diploma in Art

It was moved by Professor Hanson, and seconded by Professor Newbound that the Diploma courses in the Diploma Fine Art program be numbered within the 400 to 499 range, in accordance with the recommendation of the Executive Committee.

Council generally seemed to feel that confusion would ensue if Diploma courses (which do not carry degree credit) were given numbers that normally applied to Honor, Advanced and Graduate courses. Some members wondered if the wisest step might not be to keep such courses outside the new numbering system entirely so that they would be easily distinguished from degree courses.

An amendment to the original motion was proposed by Professor Salter, and seconded by Professor Scott, that the problem of diploma courses in all faculties and schools should be referred back to the University Committee set up for the re-numbering of courses.

The amendment to the motion was carried.

(e) Nominations for Appointments to Committees

The Executive Committee submitted the following recommendations to Council:

(a) The Revisions Committee

Owing to the retirement of Professor Blackley, the chairmanship of the Revisions Committee became vacant, necessitating a new appointment for this post and a new member for the committee, a representative of Division B.

The Executive Committee recommends the appointment of Professor Ralph Nursall for the position of chairman and that of Professor Arleigh Laycock as the member for Division B.

(b) The Honors Committee

The Executive Committee recommends the appointment of Professor Anthony Mardiros as the representative of the Department of Philosophy and Psychology. It recommends the appointment of Professor James Pearce as the representative for the Department of Physiology.

The recommendations of the Executive Committee were approved.

5. New Courses and Changes in Course Descriptions (not included in the Executive Committee Report)

i. New Courses

(a) Mathematics

It was moved by Professor Keeping, and seconded by Professor Scott that the following course be approved:

Mathematics

- ✓ 404. Advanced Calculus (3-0;3-0)
 Determinants and linear equations. Space geometry and vectors. Partial differentiation. Multiple integration. Differential equations of standard types. Series solutions of differential equations. Introduction to numerical methods. Gamma, Bessel and Legendre functions. Fourier series.
 Prerequisite: Mathematics 40 or 304.
 (This course, as Mathematics 52, has appeared only in the Engineering calendar. Chemistry Honors students have been allowed to take it instead of Mathematics 57.)

Professor Keeping explained that this course, as Mathematics 52, had appeared in the past as an Engineering course. Honors Chemistry students, however, had been allowed to take it instead of Mathematics 57 (now 420) and this proposal would regularize actual practice.

The motion was carried.

It was moved by Professor Keeping, and seconded by Professor Scott that the following course be approved:

- ✓ 306. Calculus, Analytic Geometry and Linear Algebra (5-0;5-0)

Polar and parametric coordinates. Methods and applications of integration. Series. Vectors and space geometry. Partial differentiation. Multiple integration. Complex numbers. Elements of differential equations. (These topics treated with somewhat more attention to rigour than in Mathematics 304). Introduction to linear algebra, including matrices, determinants and vector spaces.

Pre-requisite: Mathematics 1 or 5 or 201 or 200.

Pre-requisite or co-requisite: Mathematics 47 or 270.

Textbooks: Johnson and Kiokemeister, Calculus with Analytic Geometry, (Allyn and Bacon); Murdoch, Linear Algebra for Undergraduates, (Wiley).

Note: This course is required for second year Honors students in Mathematics and Physics. Other students admitted only with the consent of the instructor.

Professor Keeping explained that, in the past, both honors and pattern mathematics students had taken the same course in Calculus and Analytical Geometry (Mathematics 40). Now, there were sufficient honors students for them to be given a course by themselves: they should be treated separately, he felt, since they are our best material. It was pointed out that this proposal had its counterpart in both Chemistry and in Physics. The course would require neither additional staff nor space.

The motion was carried.

(b) Biochemistry

It was moved by Professor Collier, and seconded by Professor Spencer that the following course be approved:

531. (Formerly 103) Chemistry of Proteins (3-0;0-0) or (0-0;3-0)

A lecture course on topics in protein chemistry, including the following: isolation and solubility; electrochemical properties; size, shape, and hydration; internal structure; relation of structure to function; nucleic acid structure; biosynthesis of proteins.

Prerequisites: Biochemistry 50 or 71 or 300 or 350, Chemistry 54 or 372.

The motion was carried.

ii. Course Changes

(a) Physics

It was moved by Professor Grayson-Smith and seconded by Professor Scott that the course description of Physics 650 (formerly 110) be changed from "Electromagnetic Theory, Statistical Mechanics and Group Theory" to "Special Topics in Theoretical Physics."

The motion was carried.

6. Report of the School of Household Economics.

It was moved by Professor McIntyre, and seconded by Professor Duggan

that the following report of the School of Household Economics be approved:

The School of Household Economics recommends the following changes in the description of courses. These do not represent a change in material but a re-wording only.

1. Household Economics 2 & 12 (202) Textiles and Clothing

A study of the composition, manufacture and properties of fabrics, their use and care. The selection of clothing in relation to the individual. The use of commercial patterns in garment construction. Fitting. Sewing techniques as they apply to specific fabrics and to various types of garments.

Household Economics 59 (459) Methods of Presentation

A course in methods of presentation of subject matter in household economics; practical experience in demonstrations, and other forms of communication.

Household Economics 44 (450) Nutrition and Economics of the Household

The principles of nutrition applied to the feeding of the family. The history of family life; family relationships; standards of living; household production; the income and its expenditure; budgets; consumer education.

2. A change in time is recommended for two courses:

Household Economics 59 (459) - (3-3;0-0) instead of (1-5;0-0)

Household Economics 64 (451) - (0-0;2-3) instead of (0-0;3-1)

3. The numbers recommended for existing courses are:

202	Textiles and Clothing	(Formerly 2 and 12)
210	Foods and Nutrition	(11 and 51)
303	Household Management	(3)
304	Foods	(53)
350	Applied Art	(45)
405	Nutrition for Public Health Nurses	(62A)
450	Nutrition and Economics of the Household	(44)
451	Institutional Management	(64)
454	Experimental Cookery	(54)
456	Economics of the Household	(56)
457	Food and Diet for the Sick	(58)
458	Nutrition (Dietetics)	(57)
459	Methods of Presentation	(59)
460	Advanced Clothing	(46)

Professor McIntyre explained to Council that the report, if approved, would allow a more realistic treatment of available lecture hours, etc.

The Dean pointed out that acceptance of the report implied the de-

letion of Household Economics 51 (Food and Household Management), which has been accepted for credit as a third year open option in Arts and Science patterns. In its place, to be given the credit in this Faculty, would be Household Economics 11 (re-numbered as 210). Very few students wish to take Household Economics 51 and these few could well take Household Economics 210.

Council approved the report of the School of Household Economics, including the deletion from the Arts and Science calendar of Household Economics 51 and the acceptance in its place of Household Economics 210.

7. Professor Hocking's Report: "The Meaning of Marks." *where is it?*

When asked by the Dean if he wished to speak to his Report, Professor Hocking replied that he said all that he had to say in the document itself. He informed Council, however, that the Faculty of Education had set up a committee to study his Report and the Faculty of Agriculture had passed a motion concerning it much like the rejected recommendation of the Executive Committee on the proposals of the Registrar.

It was moved by Professor Axford, and seconded by Professor James that Council accept the Report of Professor Hocking and express its appreciation for the information and analysis contained therein. Professor Axford went on to say that, in his understanding of parliamentary procedure, acceptance of the report would in no way bind Council to any action on its recommendations. The motion was carried.

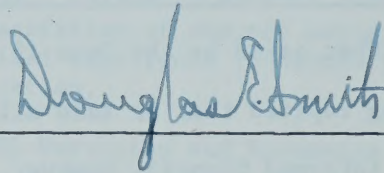
The Dean suggested that all Council members should reread the report, and encourage faculty members who do not belong to Council to read it.

8. The Dean informed Council that the recommendations of a committee set up by General Faculty Council to consider the designation for high-ranking students had been referred by that body to the various Faculty Councils. If the report of this committee had been adopted by General Faculty Council, first-class honors standing would have been replaced by, "with distinction." Instead of a B. Sc. with First Class Honors in Biochemistry, for example, a student would receive a B. Sc. in Honors Biochemistry with Distinction.

Council generally seemed to feel that it did not wish to see first class honors disappear and referred the recommendations of the General Faculty Committee, which would affect both honors and general degrees, to the Executive Committee. Professor Jones hoped that the Executive Committee in their study would investigate practices at other Canadian universities.

The motion, moved by Professor Grayson-Smith and seconded by Professor Scott, was carried.

The meeting adjourned at 6:17 p. m.

A handwritten signature in blue ink, reading "Douglas E. Smith", is written over a horizontal line.

Dean

The minutes of the 481st meeting of the Council of the Faculty of Arts and Science, which was held in the Senate Chamber on Monday, March 2nd, 1959, at 4.30

p. m. Present were: Dean Smith in the Chair, Professors Axford, Baldwin, Blackley, Brodie, Collier, Crichton, Crosby, Davis, Davy, Duggan, Elder, Folinsbee, Fostvedt, Garland, Godfrey, Grayson-Smith, Greene, Harris, Harrold, Keeping, Kennedy, Kreisel, Lowig, McIntyre, McNamee, Mardiros, May, Moser, Newbound, Nursall, Robinson, Salter, Scargill, Scott, Starchuk, Stelck, Thomas, Trainor, Von Richthofen, Whyte, Wonders, Wyman, and the Assistant Registrar.

The Dean noted with deep regret the death of Dr. Richard B. Miller, Professor of Zoology. Professor Nursall read the following tribute to Dr. Miller:

"Richard Birnie Miller was born in Weyburn, Saskatchewan, March 29, 1915, the son of Judge M. A. Miller and Caroline M. Birnie. He was a fifth generation Canadian. His elementary schooling was taken in Weyburn, his university training at the University of Toronto, from which he obtained the Bachelor of Arts with Honors in Biology, and the Toronto Gold Medal in Biology in 1936, the M.A. in 1937, and the Ph.D. in 1939.

"Dr. Miller married Lillian Frances Harkness in 1937. His two children are Richard, born in 1938 and Anne, born in 1942.

"He came to the University of Alberta as a demonstrator in 1936. In 1939 he was appointed Lecturer in Zoology. He became an Assistant Professor in 1944, an Associate in 1947 and a Professor in 1952. In 1956 he assumed the headship of the Department of Zoology.

"Professor Miller played a prominent part in the Canadian Scientific community and an invaluable role in the development of conservation practices in Alberta. He was an Associate Biologist with the Fisheries Research Board from 1944 - 46 and became a member of the F.R.B. in 1957. He organized the Canadian Whitefish inspection service for the Department of Fisheries during 1944-45 and was Co-ordinator of Canadian Triaenophorus Research from 1946-52, during which time a successful attack was made on the infestation of whitefish by the tapeworm Triaenophorus. In 1954 he was President of the Canadian Committee on Freshwater Fisheries. He was associated with the National Research Council Committee on Aquatic Biology from 1952; in 1956 he became a member of the N. R. C.

"Dr. Miller acted as consultant to the Alberta Department of Lands and Forests from 1942. In 1950 he organized the Alberta Biological Station at Gorge Creek, at which location so many of his later researches were centered.

"He was a valued member of numerous scientific societies, among which may be mentioned the Canadian Conservation Association of which he was a founding-member, and the Wildlife Society of America, of which he was Vice-President in 1957. He was President of our Science Association during 1955-56, to which group he gave several stimulating addresses over the years.

"He will be remembered for more than the mere list of his activities, a portion of which have been mentioned. His more than 70 scientific and popular articles have had great impact on his readers. His numerous graduate students and innumerable undergraduates will remember his critical and constructive comments about their work and progress. He was admired as a lecturer. His perceptive contributions to the committees and councils of faculties will be missed by his colleagues. It will be difficult to assess the loss incurred because of the

cessation of his last researches into physiology and competition among populations of fishes, a promising study just nearing fruition, but which only he could successfully conclude.

"Professor Miller will also be remembered for the gaiety he and his family could gather around them when friends got together, and for the immense courage and spirit he showed through a long and painful illness. He died February 23rd at home at the age of 43."

By a unanimous standing vote Council approved the inclusion of this tribute in the minutes.

1. Minutes of the meeting of February 2nd, 1959:

It was moved by Dr. Newbound, seconded by Dr. Whyte that the minutes of the last meeting of Council be approved as circulated. The motion was carried.

2. Business Arising from the Minutes:

(a) Renumbering of senior courses for the Diploma in Art:

Since the problem of the renumbering of senior diploma courses had been referred back by Council at its last meeting to the General Faculty Committee set up for the renumbering of courses, the report of that Committee was read to Council by the Secretary, who was one of its members. The General Faculty Committee recommended that senior diploma courses in the Diploma Fine Art program be numbered within the 400 to 499 range. The Secretary also informed Council that the Department of Fine Art had acted upon this advice and was now submitting for the approval of Council a new renumbering proposal contained in the circulated material and appended to the official version of the minutes.

It was moved by Professor Brodie, seconded by Professor Wyman that, subject to the correction of an error in the circulated material, the proposal be approved.

The motion was carried.

(b) Designation of High-Ranking Students:

At its last meeting, Council had referred to the Executive Committee the recommendations of a General Faculty Committee set up for the consideration of the designation of high-ranking students in all Faculties.

The Executive Committee found that there was considerable variation in the designation given to high-ranking students across Canada. Universities such as British Columbia and Queens used the term "honors" in two senses: (1) an intensive program demanding high standing; (2) high standing in certain faculties where there was no such program. McGill used "honors" only for honor courses, and gave degrees with distinction or top distinction in other programs. Some universities, such as New Brunswick, gave first and second division degrees. Others used only the terms

"distinction" and "great distinction."

The Executive Committee recommended the acceptance of the report of the General Faculty Committee, provided that all other faculties did likewise, but only in the interest of uniformity. If all faculties would not accept the recommendations, the Faculty of Arts and Science should continue its present policy.

It was moved by Professor Wonders and seconded by Professor Axford that Council approve the recommendation of the Executive Committee.

It was generally felt by Council that there was no particular advantage in uniformity within the university and there was certainly no uniformity in Canadian universities as a whole, as was shown by the report of the Executive Committee. The honors designation, particularly for honor programs, had the backing of tradition: universities with graduate schools knew what this meant and were not confused by practices in other faculties of this university, or indeed by practices in other universities. Support, however, was found for the assertion that "a degree in honors History" might be confused with "first-class standing in honors History."

The motion was defeated.

It was moved by Professor Greene, and seconded by Professor Kreisel that the Faculty of Arts and Science adopt the McGill system in which the term "honors" is used only for honors courses and the term "distinction" be applied to first-class standing in the General Course. This would be in conformity with the suggested use of the term "distinction" by the General Faculty Committee.

While one Council member felt that this proposal was similar to the "moving around of furniture by a housewife," it was generally favored by Council.

The motion was carried.

(c) Pattern changes:

The Dean stated that, now that the Departments of Mathematics and Philosophy and Psychology had reached an agreement on the subject of Behavioral Statistics, the amendment originally proposed for the pattern in Experimental Psychology could be approved if Council so wished. Approval for the amendment desired by the Department of Philosophy and Psychology already had been given at General

Faculty Council subject to the approval of this Council. The proposed amendment was as follows:

Second Year: Change "Psychology 59" to "Mathematics 305 and Psychology 334."

Third Year: Change "Psychology 63" to "Psychology 460" in line 1.
After "or Psychology 62" add "or 430" to line 2.

(d) Correspondence:

The Secretary read a letter received from President Johns expressing his appreciation for the resolution of congratulation on his appointment to the Presidency of the University of Alberta, passed by Council at its last meeting.

3. Report of the Executive Committee:

(a) Petitions:

The Dean drew the attention of Council to the petitions of students approved by the Executive Committee by virtue of the authority vested in it by Council.

Petitions were submitted by the following students:

Duby, Pauline
Gelech, Elsie
Hicken, Kenneth L.
Schymizek, Sylvia Helen
Turnbull, Ernest E.
Warkentin, Hilda Helen
Neild, Marion Margaret

Miss Duby, Miss Gelech, Mr. Hicken and Miss Schymizek, all third year honor students, were allowed to apply for General Course Degrees at the Spring Convocation. Mr. Turnbull, a transfer from the University of Edinburgh to third year Honors Economics, was allowed the same privilege provided that he successfully completed the examination in an Honor course in Political Theory in addition to his present registration. Miss Warkentin was allowed the privilege of a four-course final year on the grounds that this privilege had been promised to her before the regulation under which it could be allowed had been rescinded by Council on October 7th, 1957. Miss Neild was given credit upon a degree program for a course taken at the Banff School of Fine Arts as a special student, since she was at the time fully matriculated and eligible for admission as a degree student.

4. Other Business:

- (a) Suggested changes in the regulations governing the grant of the B. A. or the B. Sc. after the B. Ed:

The Dean read to Council the present regulation on the B. A. or the B. Sc. after the B. Ed:

"Students who have qualified for the degree of B. Ed. may proceed to the degree of B. A. or B. Sc. If they have met the matriculation requirements of the Faculty of Arts and Science and have completed thirteen Arts and Science courses, they will be required to complete at least six senior courses in the Faculty of Arts and Science with at least second class standing in four of these courses. Students with incomplete matriculation for Arts and Science will be required either to remove these deficiencies or to secure credit in University courses of an equivalent standard. Students who have credit in fewer than thirteen Arts and Science courses may be required to complete additional courses. Students proposing to secure the B. A. or B. Sc. in this manner will be expected to select their subjects in conformity with one of the standard Arts and Science patterns and are advised to consult the Dean of the Faculty of Arts and Science about their programs."

He pointed out that the regulation demanding six senior courses was one of long standing, but the necessity of conforming to a standard pattern was a relatively recent innovation. In practice his office had discovered that rigid conformity to a pattern could work a hardship upon students working for the B. A. or the B. Sc. after the B. Ed. Regulations might demand only six senior courses on the one hand, but pattern requirements on the other might insist on certain junior courses to be completed. If the rule of six senior courses was adhered

to with strictness, then these junior pattern requirements must be in addition to the six senior courses. The ramifications of this problem had been submitted to the Patterns Committee.

It was moved by Professor Greene (the Chairman of the Patterns Committee), and seconded by Dr. Elder that, for the B. A. or the B. Sc. after the B. Ed., while the official regulations remain unchanged, junior courses may be substituted for senior courses to meet pattern requirements, provided that no student presents in both his B. Ed. and his B. A. or B. Sc. programs, more than seven junior courses.

The motion was carried.

The Dean noted that many Education students seeking the B. A. after the B. Ed. had, in their Education programs, courses such as Zoology 5, Botany 5 and Genetics 52. For these courses they were not given Arts and Science credit towards the required thirteen, but he felt that these courses might be regarded as meeting the science requirements for Arts patterns without reducing the number of courses required for the second degree.

It was moved by Professor Greene and seconded by Professor Elder that this recommendation, which was supported by the Patterns Committee, be approved.

The motion was carried.

(b) Pattern Changes:

The Dean drew the attention of Council to the admission regulation

requiring all students in the physical science patterns and Honors programs (with the exception of the B. Sc. in Geography or in Honors Geography) to present Mathematics 31. Hitherto this had not been strictly enforced, but now a provision had been made for a supplemental in Mathematics 31. Mathematics 5, therefore, had been deleted as an alternative to Mathematics 1 in such patterns and programs. To this Council agreed.

(c) Registration procedures:

The Dean gave to Council a brief account of registration procedures at the University of British Columbia which he had recently visited.

At the University of British Columbia the Registrar is responsible for the details of admission. Doubtful cases only come before a small committee containing the Dean concerned and any decision reached is regarded by the Registrar as a precedent for future cases of the same sort.

For registration there are some Faculty advisors, but four people take the major responsibility for approving all first-year course selections. It is possible to do this since first year registrations are simple; they demand for each student two compulsory subjects and three electives and there are no patterns. Revisions are not handled on an individual basis and there is no revisions committee. The Registrar screens all records and applies cut-and-dried rules regarding passing or failing the year. Only appeals go to the Dean with the relevant file. Under this system the Dean keeps no records of students.

Here, because of the pattern system, it is impossible to see at a glance the needs of any particular student at any given time. As a result, we are forced to follow a complicated checking system and supervise very closely the registration of each and every student in every year. The basic difference between the procedures at the University of British Columbia and here arises from our adherence to a complex curriculum, while U. B. C. has adopted a much more flexible approach.

The Dean felt that he would like to discuss his findings with Council at greater length, but only after he had had a good look at several other universities. It was impossible to do anything now, at all events, without sweeping

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policy changes for which there was no time.

(d) Tentative Course Selections:

Council was informed that it was hoped to have the tentative time-table for the session of 1959-60 in the hands of departments by March 23rd. The calendar, while in press, would not be available for tentative course registration, and the lack of the calendar would make it difficult for students to make out their selection forms in view of the rather drastic changes approved by Council for the next session. The Dean informed Council that his office proposed to send out Tentative Course Registration Forms to each student with a covering letter requesting them to consult with their department not later than the first week in April.

A discussion followed on the merit of the Tentative Course Selection form. Should not the onus for correct registration be upon the student as the Calendar requires? Such forms were not in use elsewhere and, indeed, had been developed for the purpose of assisting with the preparation of the time-table, for which they were no longer needed.

One member stated that students felt they were committing themselves on these forms. While supposedly "tentative", they cannot be changed in the fall. This, said the Dean, was not so. All changes must be approved by his office, but changes can be made if departmental approval is also given.

The Dean asserted that these forms, regardless of their origin, were most valuable in checking the programs of students, especially those in the third year.

A complaint was registered that much time was spent on working out selections for students who would fail completely, or who, if they did not fail all their courses, failed some. In the latter case, the selection had to be done again in the fall.

It was moved by Professor Folinsbee and seconded by Professor Harris, that Tentative Course Selection forms be dispensed with for one year.

The Assistant Registrar pointed out that it would then be necessary for his office to require from the Dean a very large staff on registration day. At

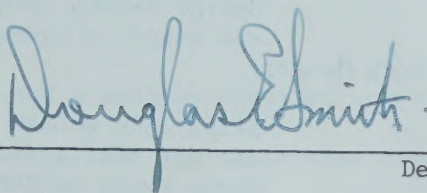
all times there would have to be advisors from every department present and not two men from each division as is the present practice in senior years. The Dean's authority was necessary for registration of a student and he would be forced to draw heavily upon his faculty for deputies. The registration period could not be lengthened nor could procedures be changed, since such a change would need the approval of the Government.

In view of the many changes that had taken place, the Dean felt that a leisurely registration in the Spring, even without benefit of the calendar, would produce fewer errors than a rushed registration in the Fall with the calendar. Arrangements could be made now to provide departments with course offerings, new numbers, etc. Spring registrations could be checked in the Summer by his office and even then there would be about 15% that needed correction. He could not estimate the error percentage in the Fall. He felt that the present procedures were not the best but that they would be better than nothing at all.

The discussion continued for some time but at length the motion was defeated by a 17 to 15 vote.

The Dean requested members of Council to announce to their classes the McEachern Essay Contest which was to be held on Saturday, March 7th, from 2 to 5 p.m. Since the prize for this contest was \$100.00, he hoped that there would be a good turn-out of contestants.

The meeting adjourned at 5.50 p. m.


Dean.

The minutes of the 482nd meeting of the Council of the Faculty of Arts and Science, which was held in the Senate Chamber on Monday, May 11th, at 2

p. m. Present were: Dean Smith in the Chair, Professors Axford, Blackley, Brodie, Brown, Collier, Cormack, Davis, Duggan, Eaton, Elder, Folinsbee, Garland, Gibb, Godfrey, Goodale, Grayson-Smith, Greene, Hanson, Hardy, Harris, Harrold, Hocking, Jacka, James, Keeping, Kennedy, Kreisel, Lowig, McIntyre, McNamee, Mardiros, May, Moser, Newbound, Nursall, Peacock, Pearce, Phibbs, Robinson, Ryan, Salter, Schiff, Scott, Starchuk, Stelck, Thomas, Trainor, Von Richthofen, Whyte, Wyman, Mr. Cairns and Mr. Hawes.

The Dean welcomed as new members of the Council, Professors Common, Cree, Bruce, Burwash, Farnham, Eccles, Mandel, Moore, Penelhum, Reinhold, Wilson and Whitney.

1. Minutes of the meeting of March 2nd, 1959:

It was moved by Professor Axford and seconded by Professor Starchuk that the minutes of the last meeting be approved as circulated. The motion was carried.

2. Report of the Committee on Honors:

It was moved by Professor Brodie and seconded by Dr. Newbound that the following report of the Committee on Honors be approved:

"The Committee recommends that the Governor General's Gold Medal be awarded to:

Ronald David BERCOV

The Committee requests that the following students be recommended to General Faculty Council for the degrees shown:

BACHELOR OF ARTS:

With First Class Honors:

Morton BROWN (Political Science)
Lawrence Patrick BURNS (History)
John Irvin DAELEY (History)
Julian Louis LAYCHUK (Modern Languages)
Louis PARAI (Economics)
George SAMUEL (English)

With Honors:

Allan John BALLAH (Modern Languages)
Ada Gay Buttle (Psychology)
Karen Freda HANSEN (Modern Languages)
Marguerite Ethel KUESTER (Modern Languages)
Robert Harry George SCAMMEL (Modern Languages)

BACHELOR OF SCIENCE:

With First Class Honors:

Donald Mattock AITKEN (Mathematics)
Ronald David BERCOV (Mathematics)

Larry Joseph BILAN (Geology)
 Janette Adele CASTELLA (Physics)
 Raymond Andrew HELLER (Chemistry)
 Vera KRAMER (Chemistry)
 Gordon Lloyd LANGE (Chemistry)
 Vic Algirdas SNIECKUS (Chemistry)

With Honors:

Glen Darrel ADAMS (Conservation Biology)
 Edward Warren FENTON (Physics)
 Peter William HOCHACHKA (Zoology)
 John JACKSON (Geology)
 Rudolph Waldemar KLASSEN (Geology)
 Eric Gordon KNIGHT (Physics)
 Walter KRAWCIW (Physics)
 Richard Bryan MATAS (Physics)
 Ruth Beatrice NORTH (Geology)
 Lois Eileen RAINSBERRY (Geology)
 William Hobert SHARP (Conservation Biology)
 Ronald Lorne PLATT (Geology)

The motion was carried.

Special Case (Nestor FEDORUK):

Council considered the case of Mr. Nestor Fedoruk, a student in fourth year Honors Chemistry who failed one course (Mathematics 52), but achieved an overall average of 67% and an Honors average of 77%.

It was moved by Professor Davis and seconded by Dr. Harris that Mr. Fedoruk be granted his Honors B. A. notwithstanding his failure in Mathematics 52.

Other possibilities were considered. Mr. Fedoruk might be allowed to write a supplemental in the fall which, if passed, would give him an Honors degree. If he failed such a supplemental, then he would go before the Revisions Committee for a General Course B. Sc. Dr. Davis said that Mr. Fedoruk would prefer a pass B. Sc. at the Spring Convocation to such a solution. He has a teaching fellowship at Wisconsin which really requires him to possess a degree now.

Mathematics 52, it was noted, was not a subject required under the old program under which Mr. Fedoruk had been enrolled, but since that time, his registration had been adjusted to the new. To "forgive" him this course would mean that he would qualify under neither the old nor the new program. Dr. Davis stated, however, that his graduate work would not suffer from his lack of a credit in Mathematics 52.

The Dean pointed out that General Faculty Council had established a precedent for the grant of degrees notwithstanding a failure, although the failure would appear on the transcript of the individual concerned. Hitherto, however, this had been applied to students of the General Course, and not to students in Honors courses. He opposed Professor Davis' suggestion that, if such a degree were granted to Mr. Fedoruk, Mathematics 52 could appear on Mr. Fedoruk's transcript as an extra course.

The motion was carried by a vote of 26-16.

3. Report of the Revisions Committee:

It was moved by Professor Nursall, and seconded by Professor Kreisel that the following report (as amended in the discussion) of the Revisions Committee, be approved:

(a) The Committee recommends that the Lieutenant Governor's Gold Medal be awarded to:

Soucy, Lorraine Marie Elsie (B. A. General Course).

Farnham, Margaret Lynne (B. Sc. General Course).

(b) The Committee requests that the following students be recommended to the General Faculty Council for degrees as shown:

Recommended for the Degree of Bachelor of Arts:

Anderson, Marvin John	- Downey, Melvin John
Awid, Sine	Duby, Pauline
Baker, Alan Maurice	Duguid, Mary Ellen
Begley, Donna Dianne	Edwards, Miriam Kathleen
Bodard, Marla Dawn	Foster, John Elgin
Berzins, Marcis	Fuchs, Hanna Felicitas
Bolton, Hugh John	Gelech, Elsie (First Class Standing)
Borgstede, Wilfred Bernard	Gerber, Allan Ernest (First Class Standing)
Brailsford, Eugene Gerald	Goos, Margareth Elfriede Marie
Brodie, Anne Helen (First Class Standing)	Hale, Donald Andrew
Bryans, Mary Kathleen	Hansen, Forrest Carl
Buker, Valerie Rae	Harvie, Beverley Jean
Bulger, Joel William	Hendersohn, Olga
Cantor, Sharon Leslie	Horne, Howard Benjamin
Corry, Eugene William	Hugo, George Ramon
Curry, James Ross	Jackson, Donna Marion
Dale, Murray Harris	Jacobson, Vivian Cecille
Daley, June Bernice	Johnstone, Mary Ellen
Dalton, Arthur Joseph	Klassen, Alfred
Deepprose, Larry Keith	Klinck, Francis Harvey
De Leeuw, Gary John	Knowles, Donald Wilson
Dishaw, Mary Anne	Kobbert, Helen Elizabeth
Donald, Rebecca Margaret	Kulak, Alice Jean Victoria

Kuzio, Jean Marie
 Lane, Robert William
 Langlois, Jean Paul
 Loney, Harold Reginald
 Lucas, Gerald Alan Ian
 Luchkovich, Denis Martin
 McConnell, Donna Lorraine
 McEwen, Marjorie Isobel
 McKendry, John Joseph
 MacKenzie, Donald Angus
 McLean, David George
 Marra, Yvonne Adele Mary
 Maertens-Poole, William Eric
 Mahood, Denis Hugh
 Mayzel, John Anthony
 Mealing, Geoffrey Robert
 Millman, John Walter
 Moore, Marlin Lloyd
 Morris, James Campbell
 Nachbar, Mabel Margaret
 Nielsen, Robert Frederick Theodore
 Palmer, Margaret Rhea
 Papp, Alice Isobel
 Perler, Molly
 Pinder, Raymond Francis
 Pollard, Francis Charles
 Pollock, Ronald Walter
 Press, John Joseph
 Raine, Donald Laird

Ranson, Waldo Bruce
 Regehr, Theodore David
 Rundle, Donna-Lynne May
 Runions, James Ernest (First Class Standing)

Saliaris, Elizabeth
 Samuel, Evelyn Mae
 Schloss, Eric Hugh
 Sheppard, Roy Allan
 Shuler, Judith Leya
 Shupenia, Verna Marie
 Shymko, Dolores Lillian
 Soucy, Lorraine Mary Elise
 (First Class Standing and
 First Class General Standing)

Stafford, James Dale
 Stevens-Guille, Michael George
 Swainson, Winnifred May
 Thompson, Robert James
 Voegtlin, Paul Leonard
 Walker, Ian
 Warren, William John
 Whelihan, Elaine Agnes
 Whittaker, Penelope Dale
 Wilburn, William Errol
 Williams, Sally-Anne
 Williams, Warren Elwood
 Zieber, Walter Carl

Recommended for the Degree of Bachelor of Science:

Anderson, Ronald Hjalmar
 Basso, Donald Valentine
 Bayer, Shirley Meta
 Bayly, Ellen Louise
 Beard, Dena Ethel
 Bell, Percy Keen
 Bide, Richard Willan
 Blake, Robert Victor
 Branigan, Donald William
 Buckley, Peter Holdsworth
 Cerezke, Herbert Frederick
 Cole, Keith Peard
 Dowhaniuk, Phillex Donald
 Farnham, Margaret Lynne
 (First Class Standing and
 First Class General Standing)
 Friedman, Louis Weinlos
 Gainer, Frederic Leo
 Gilbert, Gary William
 Grace, Walter Nathaniel
 Grillmair, Elfriede
 Guild, Jack David
 Hampton, Joena Carole
 Heck, Marcus Edward
 Hicken, Kenneth Lambert

Hocking, Martin Blake
 Hryciw, Mary
 Kangaloo, Arnim Ronald
 Kelly, James Arthur
 Klimchuk, Arthur Raphael
 Leveque, Neale Peter
 Lynch, Michael Joseph
 MacGregor, Marguerite Ann
 McKay, Mary Winifred
 McRae, Joanne Donna
 Melnyk, Michael
 Millar, Gordon Elbert
 Miller, Morris Keith
 Ness, Pauline Anne
 Neufeld, Gordon Ross
 Nykiforuk, Luella Yvonne (1st Class Standing)
 O'Leary, Cecil Mary Judith
 Patterson, Glen Allan
 Pauls, Jerome Fredrick
 Piers, Edward (First Class Standing)
 Piers, John
 Porayko, Orest
 Pucat, Amalia Margaret
 Quon, Anna Mary
 Rachert, John Andrew

Rennie, David Lyle
 Seitingner, Hilda Waltraud
 Schymizek, Sylvia Helen Elaine
 (First Class Standing)

Shank, Clarence Rosario
 Shymanski, Victor
 Skibo, Donald Nicholas
 Smith, Gerald Thomas
 Stetson, Ross Minot

Stubbs, Herbert James
 Tomm, Ellenor Ingrid
 Treleaven, Norman Earl
 Walker, Richard Barry
 Wiebe, Arthur August
 Wilkinson, Harvey Neil
 Wilks, Brian Bromley
 Wysocki, George Peter
 Zimmel, Lester Joseph

Recommended for the Degree of Bachelor of Arts in the Combined B.A.-L.L.B. Program:

Agrios, Jack Nick
 Bradley, Norman A.
 Breyer, Darlene Rosalee
 Chomicki, Peter Roy
 Decore, John Victor
 Denecky, Steve
 Doz, Samuel

Hurov, Harvey Jerrold
 Kuss, Daniel Reid
 Pekarsky, Daniel Uri
 Rootes, Kenneth James
 Sadownik, Rostyk
 Schnell, Robert E.

Special Cases:

1. Turnbull, Ernest Edward:

Mr. Turnbull, a transfer student from the University of Edinburgh, was granted permission by the Executive Committee of the Faculty of Arts and Science, to apply for his B. A. in the General Course, provided that he successfully passed an examination in Political Science 100 in addition to his current registration. Mr. Turnbull had been given a number of concessions, and, to graduate, he needed his mark in this course raised from 63 to 65%.

It was moved by Professor Nursall, seconded by Professor Hanson that this be done and that Mr. Turnbull be added to the list of students graduating in the B. A. General Course.

The motion was carried.

2. Mallen, Peter:

Mr. Mallen transferred from the B. Sc. in Commerce to the Physics Pattern and finally to the pattern in General Science. His record, poor at first, had become quite respectable by his third year, which was a six-course one. In order to graduate it was necessary for Council to allow Accounting 1 as a C Division option. This had never been done before for B. Sc. students, although the course was allowed as a credit on transfer in all B. A. patterns.

It was moved by Professor Nursall, seconded by Professor Axford that Mr. Mallen be allowed credit for Accounting 1 in the General Science pattern, and that his name be added to the list of students graduating in the B. Sc. General Course.

The motion was carried.

Students not qualifying for the B. A. or the B. Sc:

It was moved by Professor Nursall, seconded by Professor Kreisel, that the following report of the Revisions Committee on students not qualifying for their degrees be approved:

The following students failed to meet the requirements for the Bachelor of Arts, for the reasons shown in each case:

Allen, Shauna Arlene - Needs one second. ✕
 Boyden, Barbara Joan - Needs three seconds. ✕
 Boyer, Donald John - Required to repeat second-year Law. ✕
 Burns, Thomas Peter - Needs two seconds. ✕
 Craig, Jean Adele - Needs one second. ✕
 Cummings, Ronald Gordon - Two deferred finals in second-year Law. ✕
 Derrick, John Daniel - Needs one second. ✓
 Ferguson, Walter Murray - Needs one second. ✕
 Friesen, Alice Nadine - Deferred final in Zoology 1. ✓
 Galbraith, Mary Eleanor - Needs one course and one second. ✓
 Gibson, William Patrick - Needs one second. ✓
 Henning, James Leonard - Needs one second. ✓
 Kleiman, Ann Marta - Needs three seconds. ✕
 Koshel, Harry - Needs four seconds. ✕
 Lloyd, George Mervyn - Needs two seconds, deferred final Chemistry 42. ✕
 MacKeen, James Henry George - Needs two seconds. ✕
 Morton, James Arthur - Needs one course. ✓
 Mullen, Michael James - Needs two seconds. ✕
 Pepin, Denis Andre' - Needs one second. ✓
 Phillips, Kathleen Marie - Needs three seconds. ✕
 Rogerson, Sheila Gayle - Cat. II (failed three courses, got one second, needs three courses, two seconds). ✕
 Ross, David James - One deferred final in second-year Law. ✕
 Sears, Rita Gwendolyne - Needs one course, one second. ✕
 Todd, Patrick Albert - Needs one course, two seconds. ✕
 Webber, Donald Edward - Needs one second. ✓
 Davidson, John Martin - Needs three seconds. ✓

The following students failed to meet the requirements for the Bachelor of Science, for the reason shown in each case:

Bahry, Marvin Patrick - Cat. II (failed two courses, got one second, needs two courses, two seconds). ✕
 Baun, Ronald William - Needs one second. ✕
 Berezowsky, Jane Anne - Needs one second. ✓
 Bidulock, Adeline Anne - Needs one course, two seconds. ✕
 Bowen, James Hugh - Needs one second. ✕
 Brearley, Charles Thomas - Needs one course, three seconds. ✕
 Brett, Martin Sean P. - Needs one second. ✓
 Campbell, George Archibald - Needs one course, one second. ✕
 Coldham, Peter Victor - Needs one course. ✕
 Comchi, Ambrose Bill - Needs one course. ✓
 Ferguson, Joseph William - Needs one course, one second.
 Ferguson, Roy Douglas - Needs two seconds.
 Gagnon, Roger - Needs one course. ✕
 Golden, Robert Casey - Needs one course, two seconds. ✕

Herunter, Herbert Edward - Needs one second. ✕
 Jackson, Reginald Dale - Needs one course, one second. ✕
 Kay, Christine Susan - Needs one second. ✕
 Kirdeikis, Albert A. - Needs three seconds. ✕
 Kitzul, Irvin - Needs one course, four seconds. ✕
 Klatt, Viola Jean - Needs one second. ✓
 Kohut, Joan Alice - Needs one course. ✕
 Leskiw, Katie - Needs three seconds. ✕
 Lisevich, Frederick - Needs two courses, three seconds. ✕
 Loehde, Franklin Caesar John Theodore - Needs one course, four seconds. ✕
 Lonergan, Elmer Thomas - Needs one course, one second. ✕
 Long, Leroy Ernest - Needs two courses, four seconds. ✕
 Lorincz, Louis - Needs two courses, one second. ✕
 Marston, John Graham - Needs one second. ✓
 Moisey, Eileen Olive - Needs one course, four seconds. ✕
 Olynyk, John Nicholas - Needs two seconds. ✕
 Parker, Graham Richard - Needs one second. ✓
 Parker, Thomas Corbet - Needs one course, two seconds. ✕
 Pavelich, John - Cat. IV (failed three courses, average 48.6%,
 needs three courses, four seconds.)
 Pawson, Geoffrey Leslie - Needs one course, two seconds. ✕
 Platzter, Anthony Mark Albert - Needs four seconds. ✓
 Pritchard, David - Needs two seconds. ✕
 Ramsankar, Solomon Wilfred - Needs one course. ✕
 Rasmussen, Alfred Lauritz - Needs one course, two seconds. ✕
 Royer, Aurell Paul - Needs one second. ✕
 Wilde, Warren Deloy - Cat. IV (failed three courses, one second, average 51.5%,
 needs three courses, four seconds.)
 Woodman, John Campbell - Needs one second.
 Yee, Ping Tawson - One deferred final. ✓
 Young, Murray Ronald - Needs one course. ✕
 Wheelock, Douglas Hadley - Cat. IV (failed three courses, needs five seconds,
 average 42.6%).
 Samiroden, Walter Donald - Needs one course, three seconds. ✕
 Sawyer, Ronald James - Needs one course. ✓
 Tymko, Joseph Lawrence - Needs two courses, one and a half seconds. ✕

Dr. Salter queried the position of Mr. Solomon Ramsankar, who failed Mathematics 57 without supplemental privilege. Mr. Ramsankar, who is married, had to work full-time as a porter on the railroad to support himself. This, Dr. Salter felt, contributed to the failure and raised the question of a supplemental. Dr. Whitney, his instructor, stated that Mr. Ramsankar only attended about half the classes, did not hand in his term exercises, and did no work that was better than about 30 out of 100. This being so, it was Dr. Whitney's feeling that Mr. Ramsankar could not pass a supplemental with his term average, although neither he nor Prof. Keeping would oppose supplemental privileges.

As an amendment to the motion, it was moved by Dr. Salter, seconded by Dr. Goodale, that Mr. Ramsankar be granted a supplemental and that his final mark be calculated only on the basis of this final. It was felt by Council,

however, that such a concession would be unfair to many other students who had failed to qualify for such a degree.

The amendment to the motion was defeated, but the Dean indicated that he would approve a normal supplemental for Mr. Ramsankar.

The motion was approved.

Report of the School of Household Economics:

It was moved by Miss McIntyre, seconded by Miss Duggan, that the following report of the School of Household Economics be approved:

The School of Household Economics recommends that the names of the following students be submitted to General Faculty Council for the degree of Bachelor of Science in Household Economics:

Norma June BOLTER
Katherine Effie BURGESS
Judith Alexandra CAIRNS
Lynne Margaret CLAYTON
Frances Elaine CONQUEST
Marilyn COOPER
Thelma Jean CURRY
Carol Anne EVENSON
Norma Gail HARGRAVE
Marilyn Beatrice LESLIE
Zenovia Jean LUKIANCHUK
Janet Eileen McCALLUM
Ann Margaret MITCHELL
Phylis Joan NAWOLSKY
Patricia Irene NICHOLS
Arlene Marion PEARSON
Georgina Dorothy POROZNI
Maxine Ann RAE
Patricia Ann SCHNEIDER
Eufrosinia Venita SEMCHISHEN

Schell, Margaret - not recommended for the degree,
lacks one second.

The motion was approved.

Report of the School of Commerce:

It was moved by Professor Axford, seconded by Professor Hanson, that the following report of the School of Commerce be approved:

The School of Commerce requests that the following students be recommended to General Faculty Council for the degree of Bachelor of Commerce:

David John BEIERSDORFER
George Patrick BERESTOVY
Norman BOLEYCHUK

Hartwig Eckbert BOYTINCK
 Ernest Matthew BRAITHWAITE
 John Garry BUCHAN
 Gerald David CRONQUIST
 Allen Francis CRUMB
 Douglas Edward DEAKIN
 John Stewart ELLIS
 Leonard Ralph FOLKMAN
 Eva Vera GELMICI
 Henry Richardson GILLESPIE
 David Eli GROSSMAN
 Kenneth George HANNA
 James Robertson HEMPHILL
 Lesley Mae HORNER
 Donald Francis JACKSON
 Richard James JENSEN
 William John Robert JOHNSTONE
 Borden Robert KISILEVICH
 Bohdan Andris KLYMKOWICH
 John Steve KRALL
 Darcy William KURYSH
 David Forbes LESLIE
 Donald Norman Joseph LITEPLO
 Robert Victor LLOYD
 Donald Colin MACKENZIE
 Terrence Frederick McMAHON
 Edward Lee MILLER
 David Russel PANCHYSHYN
 Thomas Joseph PATTERSON
 Robert Henry REED
 William Roy RILEY
 Allan John WELSH

The following students have not met the requirement for graduation;
 in each case the deficiencies are shown:

Patrick John Burns, - Lacks two seconds.
 Vernon Kent Davis - Lacks one course.
 Donald Leif Erickson - Lacks one second.
 Michael Funduk - Lacks two courses and one second.
 John Tony Jacko, lacks two seconds.
 Gerald Jerry Levy - Lacks two seconds.
 Clifford Trimble Macor - Lacks one course and two seconds.
 John Mah Ming - Lacks one second.
 Robert McBride Pogue - Lacks three seconds.

The motion was carried.

Report of the Department of Fine Arts:

It was moved by Professor Eaton, seconded by Professor Peacock, that the
 following be recommended for the Diploma in Art:

Anna Mae BARNES
 Lorna Karen LYLE

The motion was approved.

Report of the Executive Committee:

It was moved by Professor Wyman, seconded by Professor Whyte, that the following report of the Executive Committee be approved:

1. Course Changes:

Students in the B. Mus. Program, while they have been registered in Music 200, 300, 350, 400 and 450, did not take the same laboratories as students who took these courses in the B. A. patterns or in Education. In order to remove this inconsistency, Professor Eaton suggested the following course changes, which were approved by the Executive Committee for presentation to Council:

Music 203

0-3;0-3

An instrumental class in the principles and practice of woodwind instruments.

This course is a requisite in the first year of the Bachelor of Music program.

Music 300

2-2;2-2

A study of the history of music from the years 1600 to 1900. Scores and recordings of music are provided. A critical evaluation of the styles of the various composers is emphasized. Detailed study of musical form and analysis.

Texts: A History of Music - Finney
Form in Music - Macpherson

Music 301

0-3;0-3

An instrumental class in the study of brass, woodwind and stringed instruments as they apply to band and orchestral groups.

Music 303

0-3;0-3

An instrumental class in the principles and practice of stringed instruments.

This course is a requisite in the second year of the Bachelor of Music program.

Music 353

1-0;1-0

A class in orchestration. Scoring for various combinations of woodwind, brass and stringed instruments. Problems of instrumentation, transcription and arranging.

This course is a requisite in the second year of the Bachelor of Music program.

Text: The Technique of Orchestration - Kennan

Music 400

2-2;2-2

A study of the history of music with special emphasis on the Middle Ages, Renaissance, and the Twentieth Century. A weekly seminar is provided for in which topics, previously studied, are discussed.

Texts: Music in History - McKinney and Anderson
Our Musical Heritage - Sachs

Music 401

0-3;0-3

A sequent course to Music 301. Skill is to be achieved in the playing of one instrument from each of the woodwinds, brass and strings.

Music 403

0-3;0-3

An instrumental class in the principles and practice of brass instruments. This course is a requisite in the third year of the Bachelor of Music Program.

Music 453

1-0;1-0

A class in advanced orchestration. Scoring for the large orchestra and band. Study of selected scores. This course is a requisite in the third year of the Bachelor of Music Program.

Text: The Technique of Orchestration - Kennan.

2. Petitions:

By virtue of the authority vested in it by Council, the Committee approved the petitions of the following third year Honors students to apply for degrees in the General Course at the Spring Convocation:

Richard William BIDE (Biochemistry)
Margaret Lynne FARNHAM (Biochemistry)
Olga HENDERSOHN (Modern Languages)

Miss Hendersohn, who has been ill, was not registered in the 1958-59 session but had been given special permission to return to her Honors program if she so desired.

Miss Judith Armstrong was given permission to transfer from the second year of the Modern Languages pattern to the History pattern. Her request to take four History courses in her final year was not approved. She was allowed to take three in a five-course year but her missing History requirement must be obtained at a Summer School or by some other acceptable method.

Mr. Richard A. Lant requested a transfer from the B. Sc. pattern in Mathematics to the third year of the Economics pattern. This transfer would necessitate four Economics courses in Mr. Lant's final year. The Committee refused this permission, suggesting instead that Mr. Lant consider the proposed B. A. pattern in Mathematics.

Mr. Andrew K. Clark requested a transfer from the Psychology pattern to the third year of the English pattern. Such a transfer would necessitate a six-course final year (which would depend upon his marks in the 1958-59 session) including four senior English courses. The Executive Committee felt that four courses in one subject in one year could not be allowed. The Dean, however, indicated that he would be prepared to allow a modification of the English pattern for such a good student as Mr. Clark, provided that his final marks were in keeping with his Christmas results. Mr. Clark for his fourth English would substitute an A division course that was approved by the English Department. Mr. Clark was conditionally allowed to transfer to the English pattern.

Mrs. J. G. Cameron petitioned to be exempted from her sixth matriculation subject for entrance into the Faculty of Arts and Science in view of her age and background. This request the Committee was not prepared to approve. The Dean stated that he would allow Mrs. Cameron to enter Arts and Science with one deficiency which must be cleared before she could be promoted to second year.

Miss Barbara Joan Elliot requested credit on a degree program for the Sociology 40 she took as a special student. Since Miss Elliot was a fully matriculated student and accepted for a degree program by this Faculty, the Committee approved her petition.

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Mr. Charles Hebert requested the Committee to clarify his position in the B. A. program. It was discovered that Mr. Hebert, who is 68, had been pursuing a degree program for many years, with the result that he met with neither the old nor the new regulations. The Committee decided to require Mr. Hebert to take three more courses which should include two senior English courses and one C. Division option for a B. A. in the English pattern.

Miss Catherine Warren, on the basis of work done in Nursing, in the Zoology pattern and in two years of Medicine, requested a B. Sc. in the Zoology pattern. The Executive Committee agreed to allow Miss Warren a degree in the General Science pattern provided that she successfully completed her second year in Medicine and acquired credits in Mathematics 5 and a senior A or B. Division option at Summer School. Miss Warren is not proceeding to her M. D. degree.

The motion was carried.

Report of the Patterns Committee:

It was moved by Professor Green and seconded by Professor Keeping that a B. A. pattern be introduced by the Department of Mathematics. The suggestion had been considered first by the Executive Committee and referred to the Patterns Committee. The pattern was as follows:

<u>First Year</u>	Mathematics 200 or 201 (5 or 1) Mathematics 250 or 255 or 270 (43 or 45 or 47) English 200 (2) Two options from other Departments.
<u>Second Year</u>	Mathematics 304 (40) Mathematics 250 or 255 or 270 or 310 (43 or 45 or 47 or 41) Three options from other Departments.
<u>Third Year</u>	Mathematics 350 or 360 or 420 or 450 (54 or 51 or 57 or 62) Four options.

Professor Keeping explained that this pattern was designed to meet the needs of those students who liked Mathematics but not the supporting sciences in the B. Sc. General Course (Mathematics pattern.) He felt that a very natural combination was Philosophy and Mathematics, although other combinations certainly would be possible.

The motion was carried.

It was moved by Professor Greene and seconded by Professor Davis that Chemistry 250 (39) be substituted for Chemistry 350 (42) in the second year of the Chemistry pattern in Calgary.

While he moved the motion, Professor Greene felt that this was something over which the patterns committee was not happy, since it seemed to imply an easier year at Calgary for students than those in Edmonton. Dr. Davis replied that it was most desirable to have a second year in the Chemistry pattern at Calgary and that it was impossible with present facilities to offer both Chemistry 250 and 350 at Calgary. He felt that the students who took Chemistry 250 in the place of Chemistry 350 would not be much less prepared for third year Chemistry courses than those who took Chemistry 350 but admitted that this was only a temporary and not an ideal solution to the problem.

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After some debate, the motion was carried.

Authority for revision of examination results for Summer Session and Fall:

It was moved by Professor Brodie and seconded by Professor Greene that the regular Revisions Committee be empowered to act for Council in the cases of undergraduates (not under the jurisdiction of the First Year Committee) whose results are incomplete, and in the cases of students writing supplemental examinations; and that the Dean be empowered to appoint a special Revisions Committee to act similarly on the examination results of students in the Summer Session.

The motion was carried.

Report of the Committee on Honors:

It was moved by Professor Greene and seconded by Professor Brodie that the Chemistry 370 (53) be substituted for Chemistry 372 (54) in the second year of the Honors program at Calgary.

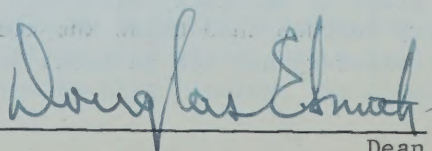
Carried.

It was moved by Professor Greene and seconded by Professor Brodie that the following Honors program in Genetics be approved:

- | | |
|--------------------|--|
| <u>First Year</u> | Botany 201 (1a and b)
Zoology 220 (1)
Chemistry 230 (35)
Mathematics 201 (1) or 200 (5)
English 200 (2) or 210 (5) |
| <u>Second Year</u> | Genetics 451 (51)
Chemistry 350 (42)
Physics 100 (1) or 200 (36) or 240 (35)
An approved senior course in Botany or Zoology or Entomology 301 (41)
A special A or B course |
| <u>Third Year</u> | Biometrics 453 (53)
Genetics 462 (62)
Biochemistry 300 (50) or 350 (71)
Botany 320 (52) or 330 (53) or Entomology 301 (41),
or Microbiology 360 (60), or Zoology 350 (52) or
410 (53) or 440, or Plant Science 620 (120)
Special A or B Course |
| <u>Fourth Year</u> | Half-course in Human Genetics (new course)
Half-course in microbial genetics (new course)
Genetics 611(111) or 612 (112) or course in Bio-
chemical Basis of Genetics (new course)
Animal Science 465 (65) and 466 (66) (half-courses)
An approved C Division option
An option |

Carried.

The meeting adjourned at 6 p. m.


Dean

The 483rd meeting of the Council of the Faculty of Arts and Science was held on Monday, October 5th, 1959, at 4.30 p. m. in Room 213, Administration Building.

Present were Dean Smith, Chairman, Vice-President Cragg, Professors Baldwin, Ball, Beachey, Bhatia, Blackley, Brodie, Bruce, Burwash, Collier, Cormack, Common, Cree, Crichton, Davis, Duggan, Eccles, Elder, Empey, Farnham, Goodale, Grayson-Smith, Hanson, Hardy, Harris, Hirabayashi, Jacka, James, Keeping, Kennedy, Kreisel, Lorch, Lowig, McIntyre, McNamee, Mandel, Mardiros, Miles, Moser, Nelson, Newbound, Nursall, Penelhum, Reinhold, Robinson, Salter, Starchuk, Stelck, Taylor, Thomas, Von Richthofen, Wallace, Whitney, Whyte, Wilson, Wyman, Mr. Hawes, and Professor Self from Calgary.

The Dean welcomed the new members of Council, Professors Farnham, Empey, Hirabayashi, Lorch, Miles and Wilson. He also noted that Professors Nursall and Penelhum, while not new to Council, were now present as statutory members.

1. Minutes of the Meeting of May 11th, 1959:

The minutes of the meeting of May 11th, which contained the list of students granted degrees at the May Convocation, and by custom not circulated to members of Council, were read by the Secretary and declared adopted as read.

2. Report of the 1959 Summer School Revisions Committee:

In the absence of Professor Scargill, the Chairman of the Summer School Revisions Committee, Professor Davis moved and Professor Penelhum seconded the following report:

The following, as a result of the 1959 Summer Session, will be recommended to General Faculty Council for the degree of Bachelor of Science:

Jane Anne BEREZOWSKI
Wallace Harold DIBBLE
Floyd LUTIC, B. Ed.
Maurice Wilfred NICHOLSON
Graham Richard PARKER
David Jasper STREATER

Julius William SZEKRENYES
Ernest Anthony TADLA
Alexander Stead TAYLOR, B. Ed.
Maurice Frederick THORPE
Brian Ralph WAKEFORD (First Class Standing)
Catherine WARREN

The following will be recommended to General Faculty Council for the degree of Bachelor of Arts:

Alfred E. DREWS, B. Ed.
Francis John FLEURY
John Wallace George GOUGH
Gladys HAGUTA
Jessie HARDACRE
Kenneth Edward MACHON
Helen Beryl McKEE
Thomas Baird McMEEKIN
Margaret Ellen MYERS
Gwendoline NORTH

Charles Thomas PEACOCKE, B. Ed.
(First Class Standing)
Denis Andre PEPIN
Don Andrew REPKA
Eli SHTABSKY
William Thomas SMETHERAM
Joseph Allan SPIER
Hilda Helen WARKENTIN (First Class Standing)
Anthony Allan VAN STRAUBENZEE

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The motion was carried.

3. Report of the Revisions Committee on September Supplementals:

It was moved by Professor Nursall, seconded by Professor Kreisel that the following report be accepted, with the addition of one name:

The following, as a result of the September Supplemental Examinations, will be recommended for the degree of Bachelor of Science:

Martin Sean P. BRETT
Ambrose Bill COMCHI
Lowell Michael HENGEL
Viola Jean KLATT

John Graham MARSTON
Ronald James SAWYER
Harold Richard WHYTE
Ping Tawson YEE

The following will be recommended to General Faculty Council for the degree of Bachelor of Arts:

Shauna Arlene ALLEN
Herbert George BAVIN
John Daniel DERRICK
Alice Nadine FRIESEN
Mary Eleanor GALBRAITH
Barbara Marion GEARY

William Patrick GIBSON
Jean Edith MCKENZIE
James Arthur MORTON
John Jack SWITZER
Orest Ernie ZALITACH

The addition was Mr. John Martin Davidson, who had qualified for his B. A. degree by the utilization of his credit in Church History 3. The Dean explained that this procedure was authorized by existing regulations and such a course had been accepted before for such a purpose. However he noted that Dean Elson was planning to discuss with him this whole question of the utilization of theological credits for the B. A. degree. Professor Nursall added that Mrs. Viola Klatt, whose name appeared amongst those who had qualified for their degrees by supplementals, had, in fact, qualified by a rereading of one of her examinations.

The report of the Revisions Committee was approved.

4. Report of the School of Household Economics:

It was moved by Professor McIntyre, seconded by Professor Duggan that the following student be recommended to General Faculty Council for the degree of Bachelor of Science in Household Economics, as a result of September Supplementals:

Margaret Eleanor VAN DER LINDEN (nee Schell)

The report was approved.

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5. Report of the School of Commerce:

It was moved by Professor Goodale, seconded by Professor Reinhold, that the following students be recommended to General Faculty Council for the degree of Bachelor of Commerce, as a result of September supplemental examinations:

John Patrick BURNS
Vernon Kent DAVIS
Donald Leif ERICKSON

Gerald Jerry LEVY
Bruce P. R. MILLAR
John Edward GARLAND

The motion was carried.

6. Special motion on Degrees obtained by Special Supplementals, etc:

On the request of the Dean, it was moved by Professor Brodie, seconded by Professor Thomas that the Revisions Committee be empowered to recommend to General Faculty Council on students qualifying for their degrees as a result of special supplementals or qualifying in some unusual circumstance. Professor Blackley asked that the latter clause be included to cover several students whose degrees might be obtained by credits from other Universities, transcripts of which had not yet been obtained.

The motion was carried.

7. Calendar Changes:

Council was asked to give retroactive approval to the following Physics courses in which students had been enrolled in anticipation of such an approval:

(a) Changes in Course Descriptions:

<u>Physics 516</u>	Solid State Physics	(2-0;2-0)
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An introduction to the theory of solids, including a study of the properties of metals, semiconductors, and dielectrics.

Co-requisite: Physics 570 (104)

<u>Physics 570</u>	Quantum Mechanics	(2-0;2-0)
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Introduction to the basic principles of quantum mechanics with application to problems in modern physics.

Prerequisites: Physics 470 (54)
Mathematics 420 (57) and 430 (56)

Prerequisite or corequisite: Physics 480 (53).

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(b) New Courses:

Physics 572 Nuclear Physics (2=0;2-0)

Introductory survey of modern experimental and theoretical nuclear Physics.

Corequisite: Physics 570 (104).

as well as a new course in Zoology:

Zoology 529 Special Problems in Zoology (3-0;3-0)

There was some discussion of the fact that the Physics courses before Council were (2-0;2-0) rather than (3-0;3-0). Did this mean that the Honors requirement for ten courses would be reduced in actual hours? The Dean replied that this was not the case and the proposal envisaged the substitution of three of the two-hour courses for two three-hour courses.

It was observed by one member, "a voice crying in the wilderness," that the net effect of such courses was an increase in specialization that should not be allowed on the undergraduate level. He felt that all Honors courses had been a mistake. Nonetheless, the motion was carried.

It was moved by Professor Keeping, seconded by Professor Grayson-Smith, that the course now named Mathematics 253 be re-named Astronomy 253 and that Physics 410 be re-named Astronomy 410. As a consequence of this motion these courses would be listed in the 1960-61 calendar under a separate heading, "Astronomy," and could be chosen as C Division options in other programs, including those in Mathematics and Physics.

The Dean mentioned that three first-year students in the Mathematics B. Sc. pattern desired to take Mathematics 253, in addition to the normal two Mathematics courses of their pattern, because of their interest in Astronomy. Under existing regulations this was not possible.

Professor Reinhold spoke in favour of this motion, since it could be considered as complimentary to a motion he hoped to introduce at a subsequent meeting of Council. Astronomy 253, he felt, would bear the same relation to Mathematics as General Linguistics 400 bears to Foreign Languages. This course deals with

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general language problems rather than with the problems of any particular language and should be allowed in the Foreign Languages pattern, (It is compulsory in Honors programs) as an A Division option.

The motion was carried.

8. Continuation of Programs of Non-graduating Students:

The Dean began a discussion of the length of time that might be allowed students to obtain the fifteen course general degree that calls for six second class standings. He felt that, eventually, time should run out, and, for Mr. Thomas Corbett Parker the time had run out in which he could complete a degree program.

Mr. Parker, a student in the Geology pattern, had appeared to register for the sixth time in the Faculty of Arts and Science, after a most lamentable previous record which included one Category IV. He had been told that only a provisional registration would be accepted, and that the Dean would take his case before Council with the recommendation that this registration be not confirmed. Such a decision, the Dean held, could be enforced by the rule on page 28 of the Arts and Science calendar, which states that:

"The General Faculty Council may refuse permission to a student to enter any year of any course if, in the opinion of the Council, such student shows a lack of general educational attainment."

The Dean stated that Professor Blackley, the Secretary of the Faculty, did not feel that such action against Mr. Parker was just. While the Secretary was in full agreement with the principle of limitation, he did feel that to fail to confirm the registration of Mr. Parker would be to condemn him by retroactive legislation.

There seemed to be a general agreement amongst Council members that there should be some form of time limitation, but the principle that would be involved in such a limitation was left for later consideration. The case of Mr. Parker alone was fully discussed. This case evoked a lively discussion on Mr. Parker's admissibility and on what should be required of him for his Degree if his provisional registration was confirmed.

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The Dean informed Council that it was the general practice of his office to approve only five-course programs, regardless of precise course needs, unless there was reason to do otherwise. Partial registrations to complete degree needs were allowed only if the student was otherwise occupied, such as by a part-time job. It was also the practice, if a student wished to proceed to the Bachelor of Education degree, to allow registration in his precise B. A. or B. Sc. needs with the balance of a full program being made of courses that he could use later in Education. Mr. Parker therefore was provisionally enrolled in a five-course program and would so remain unless Council directed otherwise.

There was some discussion on the interpretation of the six second-class standing requirement. Some wished to know if it was the intention of Council to allow these second-class standings to be obtained by repeated supplementals. The Dean suggested that this was a matter for the later full discussion of policy, but felt that there might be some limitation on the number of supplementals allowed for this purpose.

After an initial motion, which was withdrawn, it was moved by Professor Self and seconded by Professor Stelck, that the registration of Mr. Parker be confirmed on terms that would later be determined by Council if the motion passed. If the motion was defeated, Council was informed, Mr. Parker would be denied all future admission including Summer School.

As an amendment to this motion, it was moved by Professor Newbound, seconded by Professor Grayson-Smith, that there be added to it that this admission would be positively the last chance allowed to Mr. Parker.

The amendment to the motion was carried by a vote of 29 to 14.

The amended motion was carried.

On the subject of the conditions attached to Mr. Parker's admission, it was moved by Professor Penelhum, seconded by Professor Self that Mr. Parker be assigned a three-course program without supplemental privileges, and that he must pass in all three courses and obtain his outstanding seconds.

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This, however, was felt to be too lenient an approach. One Council member pointed out that Mr. Parker had had plenty of opportunities and Council should not make it easy for him to graduate. A University Degree, another felt, was more than the successful completion of a set number of courses with no time limit or conditions. An amendment to the motion, therefore, was moved by Professor Hardy, seconded by Professor Newbound, that Mr. Parker be required to complete successfully a five-course program without any supplemental privileges.

While there was some objection to this amendment, on the grounds that if it passed, retroactive legislation would be employed against Mr. Parker, and that to expect him to pass five courses was to expect more from him than from the ordinary student, the amended motion was carried.

Professor Salter asked that when Mr. Parker was informed of the decision of Council, he be informed by words to the effect that, "In view of your most unsatisfactory record, the Faculty has decided..."

9. Programs for the B. A. following various other Degrees:

The Dean informed Council that while there were regulations for the B. A. and the B. Sc. degrees following the B. Ed., and for the B. A. after the B. Sc. and vice versa, his office had received applications for second degrees not covered by these regulations. These included:

- (a) The B. A. after the B. Sc. in Engineering.
- (b) The B. A. after the B. Sc. in Nursing.
- (c) The B. A. after the B. Sc. in Architecture.
- (d) The B. A. after the B. Sc. in Household Economics (and the B. Ed.)

In view of the lateness of the hour and the remaining agenda, it was agreed that these problems be referred to the Patterns Committee. Those students who had actually applied for these degrees had been registered as Special Students in what the Dean termed "safe" courses, and there was no reason for urgent consideration of this item.

Professor Self, however, stating that he had come from Calgary in part for this item alone, begged leave of the Dean to put one motion before Council. In view of these circumstances, the Dean agreed to entertain a motion from Professor Self.

* might qualify for his B. Sc. degree. This offer was rejected in a somewhat curt reply. Mr. Malcolm had now attempted to register in the Evening Credit Program in a junior Mathematics course, in the hope that this could be credited towards a B. Sc. The Dean had written Mr. Malcolm to the effect that this junior

(Continued on page 475)

Begin reading here:

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Professor Self stated that he had long felt that the reason for the thirteen course requirement for the B. A. after the B. Ed. was that the Education program usually provided Arts options that were widely scattered, but that it was possible to provide good Arts and Science concentrates by careful selection of options. If such a careful selection had been made, he felt that the existing regulation was unfair. Therefore, he moved that the present regulations be amended to read, "If they have met the matriculation requirements of the Faculty of Arts and Science and have completed thirteen Arts and Science courses, that they be required to complete six senior courses, or a sufficient number of senior courses to complete the standard pattern, whichever be fewer." This motion was seconded by Professor Cormack.

The Dean noted that the thirteen courses and the six additional courses had only recently replaced requirements such as those now suggested by Professor Self because it was felt that the previous requirements had allowed a second degree for a very small number of additional courses. He suggested that Professor Self's motion be tabled and that it then be studied by the Patterns Committee, who would report back to Council. To this Professor Self and his seconder agreed.

Council's attention was then directed to the case of Mr. Malcolm, who was now seeking to obtain a third bachelor's degree. Mr. Malcolm had obtained a B. A. in 1937 under the old thirteen course regulation, with good marks; in 1947 as a war veteran, he completed the requirements for a B. Ed. degree and then began work upon his M. Ed. From the Faculty of Graduate Studies he was twice required to withdraw because of an indifferent record, the last withdrawal taking place in 1950. At that time Dean Macdonald, who was also Director of the School of Gradu-

ate Studies, suggested that Mr. Malcolm, by the completion of two supplementals, *

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Mathematics course could not be used on a B. Sc., in view of the large number of senior Mathematics courses already taken by Mr. Malcolm, even if regulations were devised for such a third bachelor's program.

The Dean did not know Mr. Malcolm's reasons for desiring a third degree. Such a degree would not mean an increase in his salary, although he wondered if Mr. Malcolm was aware of this fact. To the suggestion that Mr. Malcolm be required to do two full years for his third degree, the Dean replied that he would like any regulation to be the fruit of full reflection.

It was the feeling of Council that the requirements of such a third degree should be laid aside for the moment and a motion to table the case of Mr. Malcolm was moved by Professor James and seconded by Professor Kreisel. Council was in full agreement that the best that Mr. Malcolm could do was to be allowed a registration as a Special student, with no commitments. The motion was carried.

The Dean noted the existence of certain other students with problems of a similar nature. One was a student with a B. A. in Mathematics from India, who desired a B. Sc. in Mathematics, while another was a student from Pakistan who wished to do work in Biochemistry. In each case they were enrolled as Special students in programs that could be considered at a more propitious time, but were, again, composed of "safe" courses.

10. Promotion Regulations in the Faculty of Arts and Science:

In view of the lateness of the hour and the remaining items to be discussed this agenda item was deferred for a later meeting of Council.

11. The General Course Curriculum:

The Dean indicated that many had felt for long that the whole General Course curriculum might be re-examined. The patterns had been amended from time to time but no good look at the whole picture had been taken since the Walker Report. He promised that the matter would be taken up by Council and said that he was aware of the feeling of some members of Council that the patterns system should be abolished. No motion was made, on the understanding that an investigation would soon be made.

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12. Other Business:

(a) Final dates for registration and changing of one or more courses:

It was agreed by Council that as of Tuesday, October 6th, no student would be allowed to change his courses without the written consent of his Departmental Chairman and the instructor (or instructors) of the course (or courses) to which he desired to transfer. Further, it was agreed by Council that the final date for late registration be noon, October 13th, and that the final date for changing of courses be noon, October 17th.

(b) Appointments:

Council was informed of the appointment of Professor W. C. Wonders to the Executive Committee of the Faculty for the 1959-60 session as the Arts alternate member vice Professor Greene. It was also informed of the renewal of the appointment of Professor Newbound as the Science alternate member for the 1959-60 session.

The Dean then reported the nomination of Professor Eaton as a member of the Patterns Committee vice Professor Greene, and Council agreed; but the question of a Chairman of this Committee in place of Professor Greene was not decided. The appointment of a Chairman and a member for the Revisions Committee vice Professor Nursall was likewise deferred.

(c) Petitions:

The Secretary reported on petitions received by the Executive Committee at its October meeting. Upon two which involved senior extramural credits, the Executive Committee sought the direction of Council. These were the cases of Mr. William Tichkowsky and Mrs. Pearl Cooper.

Mr. Tichkowsky required two senior courses for his B. A. after the B. Ed. These he was unable to acquire since he was stationed with the R. C. A. F. as a school teacher at Metz in Germany. He had sought unsuccessfully suitable courses at the Summer Schools of European Universities and suggested as an alternative for one such course, a senior French course by correspondence, since he would obtain at the base all the help that he might need.

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Mrs. Cooper was a school teacher of excellent record, who begged Council's permission for a senior extramural course on the grounds of chronic laryngitis and bronchitis. She had attended the Evening Credit program last session and felt that the effects were such that she did not wish to try a second session.

Council was informed that these petitions, if granted, would be considered as exceptions to the rules, not as an abrogation of the rules.

Council agreed to allow the petitioners the courses they sought.

The Secretary then reported on decisions made on the petitions of Miss Phyllis Darby and Mrs. Hope Tower.

Miss Phyllis Darby, after great effort, had successfully completed seven courses of her B. A. program. When asked about the intramural year Miss Darby stated that she was unaware that this ^{requirement} existed. Therefore she petitioned that, since she has completed seven courses with great effort and can see no hope of an intramural year, this regulation be waived in her case. The Executive Committee agreed to do so.

Mrs. Hope Tower, who expected to complete her B. Ed. degree in the near future, petitioned that in view of her age she be considered as fully matriculated on the basis of a Saskatchewan matriculation, using as her sixth course Agricultural Economics and Modern Problems. This matriculation had been accepted by the Faculty of Education. She further requested that she be allowed to use on her B. A. program an unutilized extramural credit from Saskatchewan, History X31. The Executive Committee agreed to regard Mrs. Tower as fully matriculated on six subjects including Agricultural Economics and Modern Problems, but refused to grant her second request.

Professor Thomas rose to give notice of motion that at the next meeting of Council he intended to ask Council to recommend to General Faculty Council the withdrawal of supplemental privileges on all courses taken at Summer School and in the Evening Credit Program, and a curtailment of supplemental privileges on the regular program.

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After certain scholarship announcements, and a request that members of Council draw to the attention of interested students the Henry Marshal Tory lectures of Sir Grantley Adams, the Prime Minister of the West Indies Federation, Council adjourned at 6 p. m.

Douglas Elmit.

Dean

The 484th meeting of the Council of the Faculty of Arts and Science was held on Monday, November 2nd, 1959, at 4.30 p. m. in Room 213, Administration Building.

Present were Dean Smith, Chairman; Professors Allen, Baldwin, Ball, Beachey, Blackley, Bruce, Collier, Cormack, Cree, Crosby, Davis, Duggan, Eaton, Eccles, Empey, Farnham, Folinsbee, Fostvedt, Garland, Gibb, Godfrey, Grayson-Smith, Hanson, Hardy, Harries, Harris, Harrold, Hirabayashi, Horton, James, Jones, Keeping, Kennedy, Kreisel, Lorch, Lowig, McIntyre, McNamee, Mandel, Mardiros, Miles, Moore, Narayana, Newbound, Nursall, Penelhum, Phibbs, Reinhold, Ryan, Salter, Schiff, Scott, Spencer, Starchuk, Thomas, Trainor, Von Richthofen, Watson, Whitney, Whyte, Wilson, Mr. Cairns, and Professors Challice and Heymann from Calgary. Professor Hough was present at the invitation of the Dean.

1. Minutes of the Meeting of October 5th, 1959:

It was moved by Professor Grayson-Smith, seconded by Professor Thomas that the minutes of the last meeting be approved as circulated. The motion was carried.

2. Business arising from the Minutes:

(a) Limit on programs for students who fail to graduate in normal time:

This question arose from the case of Mr. Parker (considered at length at the last meeting of Council), who had returned for a sixth session in the hope of qualifying for a General Course B. Sc. in the Geology pattern. Hitherto, no such limitation had been specified.

A lengthy discussion ensued on the possibility of laying down definite rules and regulations specifying the length of time that should be allowed students in full-time attendance to complete a degree program and the nature of the final year when such students require fewer than five courses to meet the degree requirements.

It was moved by Professor Newbound, seconded by Professor Harrold that students be allowed a maximum of five full years in which to complete the General Course programs that normally took three years.

There was a good deal of discussion on the choice of five years as the maximum period allowed for the completion of a General Course degree program. Some members were prepared to support a six year maximum; others felt that four years was an ample allowance of time. One member, however, supported the idea that three years only should be allowed: it was the business of the student to worry about his ability or inability to meet a three-year requirement, not that of the members of the Faculty.

Discussion veered to the wisdom of requiring five-course final registrations when less than that number of courses would fulfill the stated degree needs. One member of Council expressed the view that students concerned would be those who could profit from a lighter schedule by learning better study methods and increased retention; it was better, he thought, to get good work in a few courses than "thinned" work in five.

The Dean explained to Council that it was his practice (and also that of his two predecessors) to require a five-course program from students who returned for an internal year to complete their degree, regardless of the fact that they might need less than this number. This normal-weight program, he felt, was a reasonable way by which it was ensured that the credits and second-class standings that they were lacking would be obtained in a manner that kept the spirit of the stated requirements for General Course degrees. If such a student indicated a desire to proceed to another Faculty (usually a B. Ed. degree), it was his custom to allow the courses extra to the degree to be from that Faculty.

This raised the question of the authority upon which such a final-year five-course program was based. If a pass was to be insisted upon in the extra courses, was not this a raising of the graduation requirement? The Dean admitted that it would be possible for students to appeal the need for such a five-course registration, but said that this had never been the case.

One member of Council expressed the opinion that, if the Faculty of Arts and Science wished to demand such a five-course registration, this should be noted in the calendar. He suggested that a possible form of such a regulation might be: "Students who fail to meet the degree requirements in three years must return to a full five-course program."

The possibility was noted that, while a student might enroll nominally in five courses, he would work only on those that were necessary for his degree. That this was no idle speculation was confirmed by two Council members citing a precise case. It was asked what could be done about such individuals.

The Chairman of the Revisions Committee was consulted on this point. He

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stated that such a student ran the risk of becoming a Category IV but that this risk might not be much of a deterrent in some cases since, even with two failures in a five-course program, most could hope to graduate.

It was pointed out that the practice in the Faculty of Engineering was to demand the successful completion of all courses prescribed in such a year, including the extra courses. One Engineering student was required to repeat English 5 at a Summer School for his B. Sc., since this was one of the extra courses demanded. Unless this was followed in the Faculty of Arts and Science, one member pointed out, students taking extra courses could "thumb their noses" at the instructors in these courses.

The discussion now had ranged somewhat far from the original motion. However there were still further questions. Would it not be better to require students to clear each year before registration was allowed in the next, than to lay down a maximum number of years for the completion of a program? If a student began with a Summer School registration, and for his final year needed only three credits, would he still be required to take five courses?

Since no consensus of opinion was apparent, on the suggestion of Dr. Lowig, the motion was tabled.

(a) Promotion Regulations in the Faculty of Arts and Science:

The Dean opened the discussion with the presentation of statistics on twenty-two students who had been placed in Category II as a result of the May examinations of 1956:

<u>Status September 1956</u>		<u>Present Status</u>	
Cleared year	-1	Graduated	4
Promoted with one failure	3	Later Cat. IV	2
Promoted with two failures (including one transfer)	7	Still registered	3
Repeated year	2	Withdrew later	4
Withdrew	9		
	22	Total	13
		Withdrew first year	9
			22

These statistics, he felt, showed that in recent years there had been a lenient promotion policy which may not have been too justified by subsequent performance.

He explained that Category II students were those who were eligible for supplementals but might be required to repeat their year if such supplementals did not improve their academic position. Until this fall such students often were allowed to proceed with such credits as they had obtained, but under the jurisdiction of the First Year Committee. This fall a full review was held and many students were required to repeat their year. It was his impression that, prior to 1941, students were required to clear their full year before being allowed to go forward.

It was moved by Professor Eccles, seconded by Professor Von Richthofen, that students be required to clear their year before they be permitted to proceed to the next. This would apply to all years. The mover of the motion explained that, if supplementals were granted in two courses, both must be passed to avoid repeating the year.

The question was asked should Arts students be denied promotion because of a failure in a C division option?

To consider this question and its implications, information was requested on practices before 1941. The Chairman of the First Year Committee could provide none, since the easily available records of his Committee did not go back to that date. One senior member of Council said that he could not remember a time when it was not possible for a student to carry a course or two in the succeeding year. As he recalled it, such students would remain under the jurisdiction of the First Year Committee until all requirements of the First Year were met. It was the impression of a second senior member that at that time, if a student failed one course but passed the remainder with a good average, he became a "Special Case" and might be allowed by Council to proceed with an extra course. This was more feasible than now, for then the programs were thirteen-course programs. If this was not the case, the student repeated his year.

The Dean drew the attention of Council to a report prepared by Dean Armstrong of McMaster University for the Canadian Universities Foundation. Here the assertion

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was made that, on the whole, Canadian Universities follow the year system and require students to pass in all subjects of the year save one, before promotion.

Some general ideas were advanced. One course only should be carried. To take this as a sixth course might not be in the best interests of weak students; indeed, for weak students perhaps four courses only should be required, but four courses under stiffer than normal requirements in the way of performance. A student did not have to take advantage of the six-course concession, if offered: he could make up his deficiency at a Summer School, or, later, take a final course in the Evening Credit Division. The Registrar felt that there would be difficulties if a set average were to be the criterion for the grant of the six-course privilege. Was there much difference between a student with a 60% average and one with a 59.4% average, supposing 60% were that criterion.

The suggestion was made that the University of Toronto's B. L. mark should be considered. At that University, students with an overall average of 60% and a 40-49 failure in one course, are allowed to proceed. Credit was given as a B. L. (below the line) in the subject so failed. The speaker felt that such a B. L. could not be used as a prerequisite for further courses in the subject concerned. The possibility of allowing a supplemental in such a course if the student requested one, was considered.

An amendment to the original motion was moved by Professor Newbound and seconded by Professor Hardy, that a student be allowed to carry a sixth course in any year provided that his overall average of the preceding year had been suitable, such suitability being determined by the First Year Committee under the direction of Council.

Since Council seemed not yet ready to consider any motion, on the suggestion of Professor Harrold the motion and the amendment to the motion were tabled.

(c) General Course Curriculum:

The Dean stated that it had long been felt by many members of Council, including himself, that while various repairs had been made to the current pattern system, no general consideration had been given the whole system since the Walker

Report. Such a general review seemed to be in order.

In view of the lateness of the hour and the complexity of the issues involved, it was moved by Professor Folinsbee and seconded by Professor Mardiros, that a review of the General Course Curriculum be referred to a Committee.

The Dean explained that, unless directed otherwise, he would ask for nominations for this ad hoc committee from the Executive Committee. The Committee so appointed would report on its findings to Council.

The motion was carried.

(d) Notice of Motion Regarding Supplementals:

Council now turned to a consideration of the notice of motion given by Professor Thomas at the meeting of October 5th. This, Professor Thomas pointed out, read as follows:

"I give notice of motion that the Faculty of Arts and Science recommend that General Faculty Council consider the abolition of the supplemental privilege in Summer Session and Evening Division courses, and its modification or elimination in other courses."

Since giving notice of motion, he had decided upon a somewhat different wording which would support more closely what he wished to see adopted by Council. Accordingly he moved, seconded by Professor Farnham that the Council of the Faculty of Arts and Science recommend to General Faculty Council the withdrawal of supplemental privileges on all courses offered by the Faculty of Arts and Science at Summer School and in the Evening Credit Program, and a curtailment of supplemental privileges on the regular program.

It was felt by one Council member that such a bald statement would not suffice. The reason for this desired move should be made plain in the motion. Another felt that Summer School and Evening Credit Division students were more deserving of charity than students in the regular session: he would favour an abolishment of the supplemental privilege in the regular session but its retention in Summer School and in the Evening Credit program.

Professor Thomas stated that he was prepared to withdraw the clause in his motion that pertained to Summer School and the Evening Credit program: this was a

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subject that needed further investigation. His motion arose from the granting of supplementals by Faculties when such supplementals were not recommended by the Departments concerned. Supplementals so obtained in History courses from the last session he said, were almost uniformly disastrous. There were standards to maintain.

The motion that Summer School students were more deserving of charity than regular course students was attacked with vigor. By putting in six hectic weeks a student could obtain credit for two-fifths of a term. This was concession enough, since these students did not do the necessary reading for the courses thus taken, nor did they have any time for reflection. The speaker supported the contention that supplementals could be abolished in Summer School even if only curtailed in the regular session without giving grounds for a charge of unfairness. Another member was unconvinced of the truth of this argument and felt that supplementals should be subject to rules that would apply in all cases.

Some discussion followed regarding standards in supplementals. Are markers as strict in marking supplementals or are they more inclined to be lenient than when marking regular examinations? Such leniency, natural enough, one member felt, would be made impossible with the abolition of the supplemental privilege, and such an abolition would raise standards. It was pointed out, however, that a good argument could be made that supplementals kept standards up and many students with lenient instructors might pass examinations that they now fail but with supplemental privileges. A final point was that many students make what was termed a "racket" out of the supplemental privilege: in difficulties they concentrate upon three courses and hope for supplementals in the remaining two, which then could be studied at leisure during the summer holidays.

It was noted that the American grade-point system does not allow supplementals but students simply pile up credits until they have achieved the number required for a degree. While there are no supplementals, students do not lose credit for a whole year unless all courses are failed. The policy of no supplementals for the London B. A. (External) was accepted by those who sought it: the pressure was on the student to pass his courses, not on the instructors to give passes as some

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members suggested might be the case if the supplemental privilege was abolished.

As a result of this discussion an amendment to the motion was moved by Professor Penelhum and seconded by Professor Mardiros, that the supplemental privilege be abolished in the Faculty of Arts and Science, provided that it be understood that the term supplemental was not to be equated with the term deferred final.

It was felt by one member that while this action might be justified for senior students, freshmen should be given a second chance in supplementals because of the change from High School to University which always required considerable adjustment for them. Professor Penelhum, however, declined to change his motion.

On this point Professor Hough, who was attending Council in the place of Professor Cook of Student Advisory Services, gave to Council certain information on the performance of first year students, illustrating the difficulties of adjustment. His office had conducted a survey on this subject, covering a period of five years. Performance in the first year of the B. A. programs was fairly constant. He said that 57.4% cleared their year, 21.4% had one failure, 2.3% had more than one failure but were not placed in a category, 5.8% were made Category II and 13.1% were made Category IV. There was more fluctuation in the first year of the B. Sc. programs. Here 56.8% cleared their year, 17.4% had one failure, 7% had more than one failure but were not placed in a category, 5.1% were made Category II and 13.7% were made Category IV.

The question was asked if there was a minimum mark for which a supplemental could be authorized. The Dean replied that there was no such actual minimum, but that 35% was often taken as a rough guide.

it was suggested

If supplementals were abolished but deferred finals remained, /students would not be above getting sick to obtain the latter.

The amendment to the motion was defeated.

Stating the view that freshmen should be allowed supplemental privileges, an amendment to the motion was moved by Professor James, seconded by Professor Harrold, that the Faculty of Arts and Science recommend that General Faculty Council consider the abolition of the supplemental privilege for students in the second and

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third years of the Faculty of Arts and Science, but that the supplemental privilege be retained for the students in first year of that Faculty.

The amendment to the motion was carried by a vote of 27-14. The Dean ruled that this action disposed of the original motion as well.

It was pointed out that, if approved by General Faculty Council, this motion would appear in the Arts and Science calendar for the session 1960-61. Supplementals must still be set for students in other Faculties taking Arts and Science courses. Senior Arts and Science students taking junior courses from this Faculty would not be granted supplementals.

3. Appointment of a Chairman for the Patterns Committee:

It was moved by Professor Hanson, seconded by Professor Starchuk, that Professor L. G. Thomas be appointed Chairman of the Patterns Committee for one year.

The motion was carried.

4. Other Business:

(a) Courses for the 1960 Summer School of Linguistics:

Noting that the 1960 Summer School of Linguistics had been authorized, the Dean felt that courses and course changes concerned only with the School should be considered.

1. Course Changes:

It was moved by Professor Reinhold, seconded by Professor Cormack that Linguistics 51 be renumbered Linguistics 410.

Professor Reinhold explained that this course, offered at the Summer School of Linguistics only, had been overlooked in the recent general course renumbering. Concerned mainly with Phonetics, it consisted of four half courses, (a, b, c, d,) two of which (a, and one of b, c or d) constitute a full course.

The motion was carried.

2. New Courses

It was moved by Professor Reinhold, seconded by Professor Moore that the following new course be approved:

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2 Linguistics 460. Field Methods in Linguistics.

10-0

Recording techniques and methods of analysis illustrated by the study of the Cree language. Problems in translating.

Prerequisite or Corequisite: Linguistics 410(a) and Linguistics 410 (b) or consent of the instructor.

The motion was carried.

It was moved by Professor James, seconded by Professor Reinhold that the following course be approved as part of the Linguistics program:

Sociology 305. Culture and Language.

10-0

The theory of culture and the interrelationship of culture and language, with special emphasis on the role of language in culture. The second half of the course involves practical application of principles through use of case studies of particular groups.

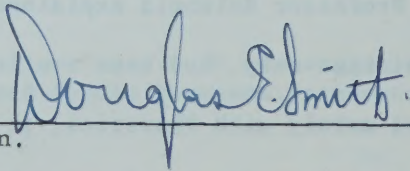
It was explained that the first portion of the course would be taught by Professor Hirabayashi who has the necessary background in anthropology, while the second half would be taught by a person with some experience amongst the Indians and Eskimos.

The motion was carried.

5. Announcements:

The Dean reminded members of Council that course changes would be considered at the December meeting of Council. Since these go first to the Executive Committee, which will meet on November 16th, he requested that the necessary material be in his hands not later than November 12th.

The meeting adjourned at 6.15 p. m.


Dean.

The 485th meeting of the Council of the Faculty of Arts and Science was held on Monday, December 7th, 1959, at 4.30 p. m. in Room 21, Administration Building.

Present were Dean Smith, Chairman; Professors Baldwin, Beachey, Bhatia, Blackley, Brodie, Brown, Bruce, Collier, Common, Cree, Crighton, Davis, Duggan, Crosby, Eaton, Eccles, Elder, Empey, Farnham, Folinsbee, Fostvedt, Garland, Glyde, Godfrey, Grayson-Smith, Hartland-Rowe, Hanson, Hardy, Harris, Hirabayashi, Jacka, James, Keeping, Kennedy, Lorch, Lowig, McIntyre, McKenzie, Mardiros, Miles, Moore, Moser, Narayana, Newbound, Nursall, Peacock, Presching, Reinhold, Robinson, Ryan, Salter, Schiff, Spencer, Starchuk, Stelck, Taylor, Thomas, Trainor, von Richthofen, Wallace, Watson, Whitney, Wonders, Woods; the Registrar.

The Dean welcomed Professor Hartland-Rowe from Calgary, Professor Woods, and Professor Presching who was present as a representative of the School of Commerce.

1. Minutes of the Meeting of November 2nd, 1959:

It was moved by Professor Thomas and seconded by Professor Godfrey, that the minutes of the last meeting be approved as circulated.

On page eight of the circulated minutes the statement appeared, "If supplementals were abolished but deferred finals remained, students would not be above getting sick to obtain the latter." Since this was an opinion of one Council member only, Council felt that the minutes should be amended by the phrase "a member felt," to indicate that such was the case.

The minutes, as amended, were carried.

On a point arising from the discussion, the Dean explained that the circulated minutes contained no page numbers because of the way in which they were prepared. The minutes were multilithed, the first copy being done on the official minute-paper which already carried a number. However he promised to look into the matter.

2. Business Arising from the Minutes:

Promotion Regulations in the Faculty of Arts and Science:

It was moved by Professor Newbound, seconded by Professor Thomas, that a Committee be set up by the Faculty of Arts and Science to consider the following matters:

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- "(a) Limit on programs of students who fail to graduate in the normal time.
- (b) Promotion regulations in the Faculty of Arts and Science.
- (c) In the event that General Faculty Council approves a letter-grade system of evaluating student performance, the evaluation of the effect of this on the Faculty of Arts and Science, particularly with regard to (a) and (b) above.

Moreover, since limitations on supplemental examinations is a related topic, the motion passed on this subject at the November meeting of the Council of the Faculty of Arts and Science should not be forwarded to General Faculty Council until the above Committee has made its report. The Committee also will investigate the report upon the effects of the implementation of this motion."

The history of the resolution concerning supplementals was reviewed. The mover of the original motion on supplementals stated that it was his expectation that the question of supplementals would not be decided without recourse to a thorough study by a committee set up for that purpose. Therefore he had seconded the motion now before Council.

It was pointed out that the motion, if passed, would mean that the decision made by Council on supplementals to a certain extent would be reconsidered. If Council so wished, on hearing the report of the proposed committee, it could reverse its earlier decision on supplementals. One member felt it unwise for Council to change motions passed at its last meeting, but the Dean stated that this was Council's privilege.

The Dean then noted that the letter-grading system mentioned in article (c) in the proposed motion was in abeyance, but felt that it would do no harm to leave that article in. He also stated that while he had informed the Registrar of the motion on supplementals, at Deans' Council he had requested that for the time being it be left off the agenda for General Faculty Council because of a notice of Professor Newbound's motion.

One member, while he admitted that the circumstances were special ones, and the Dean's action was legal enough, wished to state that he would disapprove of

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the use of this "suspending power" under normal conditions.

Council was reminded that the motion on supplementals passed at the last meeting applied only to students in the Faculty of Arts and Science. Since this was so, several members felt that Arts and Science students would be subject to discrimination.

The Dean was asked if Council did not have full control over the courses offered by this Faculty. He replied that examinations were subject to General Faculty Council. For that very reason, it then was suggested by one of those present that any motion to abolish supplementals for the whole university would have to come from a university, rather than a faculty council or committee. Some of those responsible for the original supplemental motion which was replaced by an amendment, stated that they had had in mind simply a motion from this Council to General Faculty Council embodying a recommendation that the abolition of supplementals be considered. Professor Newbound ^{thought} that if his motion in debate was passed, Council's action on the report of the Committee would go forward in this form.

The motion was carried against one dissenting vote.

It was agreed that nominations for the Committee, which must be set up as a result of Council's approval of the above motion, should be made by the Executive Committee of the Faculty.

3. Report of the Executive Committee:

- (a) Four-year program of studies leading to the degree of Bachelor of Fine Arts in Drama and its related course changes and new courses in the Division of Drama, Department of Fine Art:

Since the Executive Committee had submitted the proposals of the Drama Division to Council without recommendation, it was moved by Professor Peacock, seconded by Professor Glyde that the following be approved:

- (1) Proposed program:

First Year

Drama 250 - Acting Technique and Production	3-1;3-1
Drama 360 - Voice and Speech	3-1;3-1
Drama 270 - Stagecraft	2-2;1-3
English 200	
French 200	
Physical Education - Fencing	

Second Year

Drama 350 - Senior Acting Technique	2-4;2-4
Drama 465 - Advanced Voice and Speech	3-1;3-1

OR

An approved Arts and Science option

Drama 300 - History of the Theatre	3-0;3-0
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OR

Drama 400 - The Modern Theatre	3-0;3-0
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Drama 390 - Production	0-4;0-4
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English 332

(a) An approved Arts and Science option, preferably a senior French course.

Third Year

Two of: Drama 370 - Design for the Theatre	2-3;2-3
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Drama 450 - Styles of Acting	2-3;2-3
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Drama 480 - Directing Techniques	3-2;3-2
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Drama 300 - History of Theatre	3-0;3-0
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OR

Drama 400 - Modern Theatre	3-0;3-0
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Drama 490 - Advanced Production	0-4;0-4
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(b) Psychology 202, or 340 or 382

(c) An approved senior Arts and Science option

Fourth Year

One of: Drama 550 - Advanced Acting	2-4;2-4
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Drama 580 - Advanced Directing	2-4;2-4
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Drama 470 - Advanced Design and Technical Practice	2-4;2-4
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A senior Drama course

An approved Fine Arts option

Philosophy 350

An approved senior Arts and Science course in the department in which

(a), (b), or (c) was taken.

Drama 590 - Production Thesis	0-6;0-6
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(2) Proposed course changes:

Drama 250 - Acting Technique and Production (New Title).

Delete (3-3;3-3) and substitute (3-1;3-1)

Delete:

"(b) Stagecraft; construction and painting of scenery; lighting; costumes;
some reference to design"

and substitute:

"(b) Practical work in acting and technical practice."

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Drama 350 - Senior Acting Technique (New title)

Delete (3-3;3-3) and substitute (2-4;2-4)

Delete:

"(b) 2. Training in styles of acting: Contemporary, Restoration, Shakespearean, Greek," and substitute:

"(b) 2. Advanced training in contemporary styles of acting."

Drama 480 - Directing Techniques (New title and new number)

Delete (3-3;3-3) and substitute (3-2;3-2)

Delete (b) 2.

"In the second term the class will be responsible for the direction of several one-act plays."

Substitute (b) 2.

"In the second term each member of the class will be responsible for the preparation of a complete director's script."

(3) Proposed new courses:

Drama 270 - Stagecraft

2-2;1-3

Construction, handling of scenery, properties, lighting, costumes, and practical work in connection with performances.

Drama 465 - Advanced Voice and Speech

3-1;3-1

More advanced study of English pronunciation and intonation; emphasis on correction of student's voice; training in vocal characterization.

Prerequisite: Drama 360.

Drama 390 - Production

0-4;0-4

Planning and execution involved in technical operation for major productions.

Prerequisite: Drama 270.

Drama 370 - Design for the Theatre

2-3;2-3

Studies in principles of design and limitation of the stage. Selection of elements, scale and proportion, composition, color, lighting.

Prerequisite: Drama 270.

Drama 450 - Styles of Acting

2-3;2-3

Study and performance in the main period styles of acting.

Prerequisite: Drama 350.

Drama 490 - Advanced Production

0-4;0-4

Advanced practical study in one of three fields - Acting, Directing, or Design.

Prerequisite: Drama 340 or 450 or 480.

Drama 550 - Advanced Acting

2-4;2-4

Assignment in major roles for public performance.

Prerequisite: Drama 350.

Drama 580 - Advanced Directing

2-4;2-4

Studies in play directing with analysis and practical work in the staging of plays of different types and styles.

Prerequisite: Drama 450.

Drama 470 - Advanced Design and Technical Practice

2-4;2-4

Individually assigned problems covering responsibilities of stage designer; practical work in advanced stagecraft; required practical design and technical work in productions.

Prerequisite: Drama 340.

Drama 590 - Production Thesis

0-6;0-6

A completely developed production book including a major paper on one of the following aspects of production: acting, directing, design, or technical practice. The thesis may be based on an actual, or a theoretical production.

Prerequisite: One of Drama 440, 550, or 580.

Professor Peacock spoke about the proposed new program. He felt that there were three types of students in this Faculty who had an interest in drama. There were those who wished to teach drama in the schools (largely via the B. A. after the B. Ed;) there were those who wished the B. A. in Drama for general educational purposes; and finally there were those who wished a specialized program in drama to meet the requirements set down by other universities for post-graduate studies.

The proposed B.F.A. course in Drama for those who wished to proceed to post-graduate studies would have more prestige than the B. A. in the Drama pattern. Its non-drama courses such as French, Aesthetics, Psychology, etc., were all slanted for that purpose. Professor Peacock noted that other universities, particularly the American state universities, had such programs. In some cases, (i.e. Yale, Columbia, Stanford and Northwestern,) there was even a Ph.D. in Drama. Toronto was moving in this direction, and an M.A. in Drama could be obtained at the University of British Columbia in five years.

He stressed the fact that the purpose of the proposed program was not specifically to train actors or directors, nor was it intended to over-emphasize the practical skills. The program would concentrate not upon one aspect, but upon all aspects of modern theatre art. He did not feel that the proposal of his division should be regarded as a professional course.

Some members of Council, he thought, might object to the absence of the normally required mathematics or science courses. Such courses might be taken, if desired, as approved options, but he would prefer options to be in such fields as aesthetics, French, etc. There would be a minimum of thirteen theatre courses in the program. As set down the suggested program would fulfill a real need. The lack of this program means and would mean that those who desired the training it could provide would get it either in the United States or in Great Britain. Its

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implementation would in no way lower the standard degree programs at this university. As Council would see, existing Drama courses would be incorporated with the minimum of change into the new degree program, but the proposed new courses would be restricted to those in that program (i.e. Drama 390, 490, 590 would not be open to students other than those in the B.F.A. program.)

During the discussion which followed, Professor Peacock was asked how close an analogy could be made between the proposed B.F.A. program in Drama and the existing B.Mus. program. Further, why was the B.F.A. program not put forward as an Honors course?

To this Professor Peacock replied that the proposed program was of longer duration than the B.Mus. program, which required a certain proficiency in Music for entrance. An equivalent proficiency in Drama it was not at the present possible to demand, although at some future date the High Schools might provide this. He felt that, from the practical point of view, the B.F.A. in Drama would carry more weight in the circles concerned, where it is known, than an Honor B. A. in Drama, which is far from being usual.

The Dean was asked if the new committee to review the patterns might not be given the task of considering this program. He replied that the proposed B.F.A. in Drama was outside the present pattern system and thus would not be within the terms of reference of that committee. The committee would not be considering the B.Mus. program, the pre-Dental year, the combined B.A.-LL.B. course, or the Diploma in Art.

On specific criticisms, one member questioned the first year French compulsory course. Some students might wish to substitute German and the possibility existed of a rare "avis" who might wish for a course in Greek to enable a study of Greek Drama. To this Professor Peacock agreed. When the program was drawn up the importance of the French-Canadian theatre had been foremost in the minds of those concerned. However, he agreed to the substitution of an equivalent course in a language other than French 200 if that course were not taken. This

would be phrased as "French 200 or a language other than English," with the second year stipulation of "An approved Arts and Science option, preferably a senior French course," being amended to read, "An approved option, preferably a senior French course or another foreign language."

Professor Peacock was questioned on the advisability of such specialization, particularly in the first year, which would render difficult a transfer to another program. Was such specialization desirable? A larger Arts content than that proposed might be more suitable. Had Professor Peacock considered a three-year B. A. program to be followed by a Master's degree?

To this criticism, Professor Peacock replied that, in his opinion, the ordinary Honors program was as highly specialized as the one under discussion. He did not feel that he could advise a Master's degree in Drama for some time because of the lack of necessary facilities. It should be pointed out, he felt, that ten of the courses in the proposed program were ordinary Arts courses and the degree of specialization was not as great as the criticism indicated.

One of these points was the subject of further discussion. After the first year of this proposed program, what credits in the B. A. (General Course) would the student have if he should wish to make a transfer? The Dean felt that a similar problem was faced already in the B. Mus. program. The student would lose one course in either program. The B. Mus. program was just as specialized as the program under discussion. The Dean objected to the statement that, in avoiding compulsory sciences the proposed program was setting a precedent. Such a precedent had been set already in the B. Mus. program and the four-year Diploma in Art.

Giving a diploma for a four-year training was one thing, according to one member, while a degree was another. He wished to know why the training desired by Professor Peacock entitled a student who took it to a degree, while the same amount of time in Art did not.

To this Professor Glyde replied that the Diploma in Art was a course in practical subjects. Students entered the diploma program with no training at all and painting was a very wide field. The Diploma in Art casts a wide net and gives

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training in the many fields of art and thus was more diversified than the Drama program proposed. In the High School system there was some Drama, and even if no formal courses were taken, almost all high schools put on plays, etc., which did provide some training. It was thus possible for students to enter a Drama degree program with enough training to enable them to know that the degree proposed was what they wished.

The Dean now asked Professor Peacock if there were any changes he wished to make as a result of the discussion. Would he prefer to table his motion for the next meeting of Council or put the motion to the vote? Professor Peacock felt that he wished to make no changes and that he would prefer a vote to be taken at the present meeting.

A few questions remained. Would the admission requirements for this program be the same as those now required for admission to a B. A. program in the Faculty of Arts and Science? Professor Peacock said that they would. In order to allow transfers from the new program to others, would he consider moving the third year option in Psychology to the first year? Professor Peacock replied that he would prefer not to do this: a great deal of time had been spent in achieving what was felt to be the proper balance and such an adjustment was not desirable. The Registrar wished to know if equivalent programs at other universities were normally four-year programs after matriculation. He was informed by Professor Peacock that this was almost universally the case.

The motion was carried, with four opposed.

(b) Other Calendar Changes:

The Dean then brought forward the calendar changes approved by the Executive Committee and contained in the report of that Committee (appended to the official minutes.) Two changes had since been requested. The Department of Zoology wished to present Zoology 410 as a full course and to delete Zoology 412. As originally presented, both had been half-courses in embryology. The Department expected to obtain a new embryologist and wished to allow him as much freedom

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as possible in the presentation of his subject. The new time for Zoology 410 , therefore, should read (3-3;3-3).

It was moved by Professor Mardiros, seconded by Professor Nursall that the recommended calendar changes be approved.

Professor Wonders asked if the prerequisites for the two half-courses Zoology 462 (Terrestrial Ecology) and Zoology 464 (Limnology) might be lightened to enable interested students from other patterns such as Geography to take them. Professor Nursall replied that this would be difficult since both were senior Zoology courses and designed for Zoology students. It was noted that any Department can waive the prerequisites for its courses and Professor Nursall indicated his willingness to consider the case of any interested student from another field who might wish to take these courses.

Professor Grayson-Smith asked about the absence of the changes he had recommended for the preamble to the Physics offerings. The Secretary replied that he had considered the changes to be of an editorial nature and had incorporated them already in the draft of the 1960-61 calendar.

The motion was carried.

(c) Nomination of Committee Members:

(1) Revisions Committee:

The Dean informed Council that it was necessary to change the nomination of the Executive Committee for the vacancy in the Revisions Committee. According to the Executive Committee report, Professor Mackie of Zoology was nominated for this position. However, the Zoology Department had pointed out that Professor Mackie would be teaching the field course Zoology 625 and that every other year this would necessitate his absence for two weeks after the spring examinations. Accordingly, Professor Mackie's name was withdrawn and Professor L. Wilson's put forward, subject to her acquiescence. A search of the minutes for another purpose had revealed that the new member did not need to represent the biological sciences.

(2) Committee to Study the Curriculum of the General Course:

The Dean stated that all Council members nominated by the Executive had agreed to serve if approved.

It was moved by Professor Brodie, seconded by Professor Nursall, that the nominations be approved.

The motion was carried.

(d) Report on petitions:

The Secretary informed Council that Mr. Thomas C. Parker had withdrawn from the University since the report had been prepared. Mr. Parker, being very short of money, had taken a position and had asked for a clarification of his status. He had been informed that his withdrawal ended his hopes for a degree from this University, since he would not be readmitted for any further studies.

(e) Report on Decision Regarding Credits from British Universities Summer Session:

The Discussion on this matter was interrupted by decision of Council to consider first Item 4 of the Agenda, as the two were closely linked. The matter, therefore, was tabled.

4. Summer Session Class Load:

The Dean stated that the Summer School Committee was concerned with student class load in the six weeks of the Summer Session. It had asked the Faculty Councils concerned for their opinions.

One Council member stated that the fact that two courses might be taken at a Summer Session caused him considerable concern. He would like to see only one course credit allowed at each Summer Session for the B. A. degree. Such a change, of course, might require as a necessary preliminary, a fairly thorough reconsideration of Summer School policy, and such a reconsideration presumably would mean a committee set up for this purpose. He agreed with the suggestion that, as well as limiting students to one course each Summer Session, one course also should be the maximum for the Evening Credit program in any given year. It was felt by some that, if such a restriction was approved by General Faculty

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Council, the total allowed to Education should be the same.

Council was informed that Arts and Science students customarily were allowed not more than two courses in a Summer Session. If a student wished to take a course with a laboratory, he was normally allowed only one course. Some exceptions, however, were made to the latter custom, but only for excellent reasons. In the Faculty of Education students were ^{more frequently} allowed to take one lecture and one laboratory course, with the occasional student being given permission to take three lecture courses in the final year to complete a degree program.

In the three western provinces, the University of British Columbia had a Summer Session of seven weeks with no pre-session study, and allowed two courses. The University of Alberta had a six-weeks Summer Session with pre-session study and normally allowed two courses. Finally, the University of Saskatchewan had a six-weeks Summer Session with no pre-session study, with one course only allowed.

The Secretary stated that according to the minutes of the Faculty, three courses could be allowed an exceptional student at Summer School. No precise rule existed which barred a student from taking a laboratory and a non-laboratory course together, but the Faculty had considered such a registration to be an inadvisable one.

Various members of Council gave as their opinion that a laboratory course and a lecture course could not be handled well by students in the six weeks of Summer School. By the end of each week those who had been permitted such a registration were exhausted. The Summer School calendar statement that such a registration was "inadvisable" should be changed to "not permitted." With the present regulations, students in laboratory courses (and one other course) were constantly telling their instructors that it was impossible for them to do their class assignments, etc.

The Dean stated that the Summer School Committee was questioning the possibility of more than two courses, but had not felt it possible to reduce the load to fewer than two courses. At the meeting of the Committee in question, Dean Coutts

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had stressed the realities of university programs for teachers. A student might complete five Summer Schools for a degree, but pale at the prospect of ten Summer Schools, or ten years, which would be the case if this regulation was approved for the whole university. For a teacher with the Junior E Certificate, the Dean noted it would take seventeen years for a degree if one course only could be completed at Summer School. One member pointed out that those with a B. A. needed a full year and a two-course Summer School to begin teaching and such a regulation might work a real hardship for such students.

In rebuttal, one member thought that it was the obligation of the University to provide good courses at Summer School more than it was to provide a rapid degree program. While this might be so, said another, the general adoption of a one-course Summer School program at the University might result only in a swamp-Columbiaing of the University of British/Summer School.

It was felt that the B. Sc. after the B. Ed. programs were at a very definite disadvantage under the present regulations which did not allow two laboratory courses at a Summer School. If all students were allowed only one course at Summer School, this disadvantage would disappear and more people would take the science programs.

Several members voiced their agreement with arguments in favour of reducing the load to one course. Another advanced the opinion that such a regulation would overcome the difficulty of staffing the Summer School. If a one-course program only was allowed, the need for pre-session study was questioned: indeed, in any case, the value of such study was seriously questioned.

It was moved by Professor Grayson-Smith, seconded by Professor Thomas, that this Faculty recommend to General Faculty Council, via the Summer Session Committee, that one course only be permitted a student at Summer School.

The motion was carried.

Various opinions were advanced on the value of Summer School pre-session study. In some subjects such study was felt to be almost valueless: in others

pre-session study was felt to be of great value. As the opinion of Council was divided, it was moved by Professor Eccles, seconded by Professor Collier that in the opinion of the Faculty, the requirement for pre-session study be left to the discretion of the Department concerned.

The motion was carried.

5. Credits from British Universities Summer School Session:

A lively discussion ensued over the decision of the Executive Committee, subject to ratification by Council, that courses taken at the British University Summer Schools be accepted for credit on a ratio of two for one to the extent that they could be fitted into regular programs.

It was moved by Professor Hanson, seconded by Professor Hardy that the decision of the Executive Committee be approved.

Many members of Council seemed to feel that while one course might be allowed for credit, two was over-generous. Others appeared very loathe to allow any credit whatsoever. The latter were very sceptical of the value of the courses that might be taken and felt that the whole scheme largely was a means of attracting tourists to Britain. There were no admission requirements and no means such as examinations to measure the performance of students. They were much like the Banff School non-credit courses which provided some instruction in a pleasant atmosphere. The instructors had impressive names but their lectures, etc., were designed to meet the needs of the students that came.

Council was informed that according to the material on these courses, they were designed for senior undergraduate and graduate students with preference being given to graduate students. Mr. Jessup, the representative of the schools, had given assurances that this meant what it said, and that for those who desired it arrangements would be made for a grading to be given.

The discussion was interrupted to consider class load at the University of Alberta Summer School. At the end of the discussion on class load, the Dean asked if he could assume that the Faculty would give credit for one course taken at such a British Universities Summer School.

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One member who had taken such a course himself, felt that no credit should be given for any course. Another suggested that the Department be the authority to recommend to what extent credits could be given for summer courses at any European universities.

Professors Hardy and Hanson withdrew their motion and Professors Robinson and Salter moved and seconded a new motion that no credit be given for work done at the British University Summer Session.

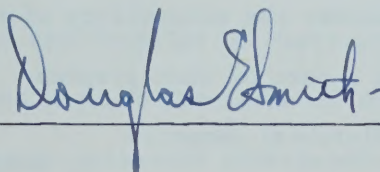
The motion was defeated by a vote of 21 to 20.

The Dean said that this could be interpreted as approval for the granting of one credit, where such a credit could be applied to a program, for work at the British Universities Summer School. In view of the closeness of the vote, however, any application for such a credit would be carefully considered.

5. Other Business:

In view of the lateness of the hour the Dean felt it wise to defer any further problems to the January meeting of Council. Such a meeting was not normal, but there were course changes to be considered, changes in the Honors programs, etc. One item that would be considered would be a request for credit courses in French and Russian to be given at the Banff School. This debate must involve the conditions under which such courses (or indeed any other additional courses) could be given. Professor James, the Faculty representative on the In-service Education Committee, said that he would be very grateful for any ideas that members of Council might be able to pass on to him.

The meeting adjourned at 6.18 p. m.



Dean

The 486th meeting of the Council of the Faculty of Arts and Science was held on Monday, January 4th, 1960, at 4.30 p. m., in Room 213, Administration Building.

Present were Dean Smith, Chairman; Professors Baldwin, Beachey, Blackley, Brodie, Burwash, Collier, Cook, Cormack, Common, Challice (Calgary), Crosby, Davis, Davy, Duggan, Eaton, Eccles, Elder, Farnham, Folinsbee, Garland, Gibb, Godfrey, Goodale, Hanson, Hardy, Harris, Harrold, Hirabayashi, Horton, Kennedy, Kreisel, Lowig, McKenzie, McNamee, Mandel, Mardiros, Moore, Newbound, Nursall, Penelhum, Phibbs, Reinhold, Ryan, Salter, Schiff, Scott, Starchuk, Thomas, von Richthofen, Watson, Murray, Whitney, Whyte, Wilson, Woods, Wyman, and the Associate Registrar, Mr. Hawes. Also present was Professor Preshing as a representative of the School of Commerce and Professor Unrau of the Faculty of Agriculture, by invitation.

1. Minutes of the Meeting of December 7th, 1959:

It was moved by Professor Ryan, and seconded by Professor Mardiros that the minutes of the last meeting be approved as circulated.

The motion was carried.

2. Proposed Calendar Changes:

It was moved by Professor Brodie, seconded by Professor Ryan that the calendar changes found on the first three pages of the Report of the Executive Committee (see appendix to minutes) be approved.

The calendar changes (subject to corrections in detail noted in appendix) were carried.

It was moved by Professor Common, seconded by Professor Scott that the new courses and course changes not considered by the Executive Committee but contained in the circulated material be approved (see appendix.)

The motion was carried.

The Dean reminded Council that at its May 11th, 1959, meeting it had approved the introduction of an Honors program in Genetics. When this approval was obtained the precise nature of certain fourth year half courses was not known. Now Council was asked to consider the suitability of two proposed new courses, Genetics 530 and Genetics 531, as a part of that program.

Genetics 530 - Microbial Genetics

0-4;0-4

J. Weijer

An advanced laboratory-conference course dealing with genetics of fungi, bacteria and viruses.

Prerequisites - Genetics 451 or 452.

Prerequisite or corequisite - Biochemistry 300 or 350.

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Genetics 531 - Population and Biometrical Genetics

3-0;3-0

L. P. V. Johnson

The Genetic nature of populations: mating systems, selective forces, allelic frequencies. Genetic analyses of continuous variation: polygenic systems, constitution of analytical statistics, partitioning methods, analysis of diallel crosses.

Prerequisite - Genetics 451 or 452

Prerequisite or corequisite - Biometrics 453

Professor Unrau of Plant Science in the Faculty of Agriculture was present at the meeting on the Dean's invitation, to answer such questions as Council might choose to ask.

It was moved by Professor Whyte, seconded by Professor Brody that the proposed new courses be approved as desired.

When asked the meaning of the phrase "constitution of analytical statistics," contained in the description of Genetics 531, Professor Unrau regretted that this course covered an area which was not his field. Professor L. V. P. Johnson, who had drafted the description, was in Birmingham and it would be necessary for him to clarify this point by letter since he had no other information on hand than the course outline.

The mover and seconder of the motion agreed that the approval of the courses in question should be subject to satisfactory modifications in Genetics 531. Since Professor Unrau felt that he could obtain a reply from Professor Johnson within a week, these modifications could be reported directly to General Faculty Council.

The revised motion was carried.

In answer to questions raised, Professor Unrau stated that, from the Honors Program in Genetics, a student at the moment could not proceed to an M. Sc. or a Ph. D. in this field at the University of Alberta. If he desired such advanced work, however, such a student could obtain the requisite instruction, etc., at other institutions.

The Dean explained to Council that the Bachelor of Music program, as initially presented and approved, had not taken into account the needs of students who, at the beginning of their program here, already possessed considerable musical training. The first practical subject was designed to instruct students to such a level that, in their third year they would obtain the Associate Diploma of the

Western Board of Music. Some students presenting themselves for admission already possessed the Associateship Diploma, or hoped to get it soon. It was felt by the Division of Music, Department of Fine Art, that these people must take three more years of practical training in their principal instrument and that provisions should be made for this to be possible. Some might wish to get the Licentiateship during the course of their degree training, while others might be content with additional training which did not lead to such a distinction. Courses, therefore, were placed before Council, which would allow a continued broadened training after the Associateship in the first practical subject. In addition, in order to make the position of such students clear, a note was proposed to append to the B. Mus. program as it appeared in the Arts and Science calendar.

New Music Courses:

Music 503 - Repertory of First Practical Subject
Members of the Staff

The study of the piano or violin or song repertory up to and including Beethoven.

Music 513 - Repertory of First Practical Subject
Members of the Staff

The study of the piano or violin or song repertory of the 19th and 20th centuries.

Music 523 - Repertory of First Practical subject
Members of the Staff
The study of Chamber Music and the Art Song.

Professor Eaton noted that Music 503 could be offered in 1960-61, Music 513 in 1961-62 and Music 523 in 1962-63.

Note to follow Bachelor of Music program (see Arts and Science Calendar, 1959-60, page 77):

Division of Music

Note (ii) First Practical Subject

Students entering the B. Mus. program without the Associate of Music (A.Mus.) Diploma of the Western Board of Music, must complete the requirements for this Diploma before graduation. Those who complete the requirements for the A. Mus. Diploma in their first year will be required, either to complete two of Music 503, 513 and 523 before graduation, or to proceed to the Licentiate of Music (L. Mus.) Diploma.

Those who complete the requirements for the A. Mus. Diploma in their second year will be required to complete one of Music 503, 513 and 523 in their third year.

Students entering the B. Music program with the A. Mus. Diploma of the Western

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Board of Music, will be required either to continue study within the Music Division towards the Licentiate of Music (L. Mus.) Diploma, or to complete Music 503 in their first year, Music 513 in their second, and Music 523 in their third.

Students entering the B. Mus. program with an Associate in Music Diploma from another recognized institution must complete the A. Mus. Diploma program of the Western Board of Music before graduation.

All students in the B. Mus. program are required to sit for an examination in the First and Second Practical Subjects in December and April of each year.

It was moved by Professor Eaton, seconded by Professor Hanson, that the preamble to the B. Mus. Program and the new courses proposed for that program be approved.

The motion was carried.

The Dean informed Council that certain problems had arisen as a result of the introduction of the two half-courses Mathematics 305 (Introduction to Behavioral Statistics) and Psychology 334 (Behavioral Statistics,) the former being a prerequisite for the latter and both constituting a full course. At the recent Christmas examinations, two students had failed the examination in Mathematics 305, which, in this case, was a final examination. Should such students be allowed to proceed to Psychology 334 when they had, in fact, failed the prerequisite Mathematics 305?

To avoid such a problem in the future, and to permit desirable changes in methods of presenting the material, ~~the~~ two departments proposed to combine the two courses into one (which they proposed to call Statistics 305,) given jointly by members of the Department of Mathematics and the Psychology division of the Department of Philosophy and Psychology.

Professor Keeping then read the description of the proposed new course, which was as follows:

Statistics 305 - Behavioral Statistics

3-3;3-3

Tabulation, graphical representation and reduction of data. Measures of location and dispersion. Probability and relative frequency. The binomial and normal distributions. Curve fitting and the chi-square test of goodness-of-fit. Relation between sample and population. Confidence intervals and confidence interval charts. The t and F distributions. Testing of statistical hypotheses.

Professor Keeping then went on to explain that the title, Statistics 305, involved a second proposal. This was to separate out from the Mathematics courses

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now being offered by his department, those which were statistics courses. These would all be classed as Statistics courses and would appear under that heading, rather than the Mathematics heading, in the calendar. Something of a similar nature had already been approved by Council with the setting up of an Astronomy heading by converting Mathematics 253 (Astronomy) and Physics 410 (Astrophysics) to Astronomy 253 and Astronomy 410. He was prepared to propose that Mathematics 210, 255, 450, 560, 562, 564 and 570 become Statistics 210, 255, 450, 560, 562, 564 and 570, and that the course description of Statistics (Mathematics) 660 be changed to Stochastic Processes.

It was moved by Professor Keeping, seconded by Professor Wyman that the above proposals be approved.

Council agreed that Statistics 305 could be counted as an acceptable C Division option for students whose pattern could include it. Professor Keeping, when asked, explained that the proposed Statistics 305 would differ from Mathematics 255 (Statistics) in that it would not cover as much material in the purely statistical field as Mathematics 255, and what it did cover would not be covered as thoroughly. On the other hand, it naturally would contain much material related to the purpose for which it was designed, and the application of that material, not to be found in Mathematics 255.

It was noted that, in the present courses, Mathematics 305 was a prerequisite for Psychology 334 but there was no prerequisite for Mathematics 305. Should the proposed course have prerequisites? The two existing half-courses, according to the calendar descriptions were designed for, but not restricted to students in Sociology and Psychology.

Accordingly, an amendment to the previous motion was moved by Professor Mardiros, seconded by Professor Keeping, that Psychology 202 or Sociology 202 be made a prerequisite or a co-requisite for the proposed Statistics 305. However the mover and seconder of the original motion agreed to these changes and the amendment was withdrawn.

Since this Statistics course might be taken by a few students in the third

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or fourth years of some Honors programs, the corequisite clause was felt to be necessary. It was the feeling of Council, however, that with the exception of such students, only those in the Psychology and Sociology patterns would be interested.

The Dean then asked if the mover and seconder of the motion under discussion would object to still another addition. Christian Apologetics was the only course appearing in the Arts and Science calendar without a number, and the Executive Committee had recommended that 366 be assigned. This would complete the new courses and course changes.

The mover and seconder agreed and the amended motion was carried.

3. Nominations:

It was moved by Professor Hanson, seconded by Professor Wyman, that Council approve the following nominations made by the Executive Committee for the Committee on Promotion Regulations and Related Matters (agreed upon at the last meeting of Council):

Professor J. T. Jones (Chairman)
Professor W. J. Eccles
Professor K. B. Newbound
Professor J. H. Whyte
Professor W. C. Wonders

The motion was carried.

4. Report of the Committee on Honors:

It was moved by Professor Scott, seconded by Professor Thomas, that the following report of the Honors Committee be approved:

(a) Honors in Physics

First Year: Change Physics 240 to read Physics 242.
Third Year: Change Mathematics 420 to read Mathematics 421 and 422.
Fourth Year: To read Physics 510; Physics 550; Physics 570; Physics 571 laboratory; three of Mathematics 500, Physics 516, Physics 520, Physics 540, Physics 572. Other options in the Fourth Year can be arranged in special cases.

(b) Honors in Physics and Geology

First Year: Change Physics 240 to read Physics 242.
Third Year: To read Physics 360; Geology 454; Geology 457, Mathematics 421 and 422; an A. or B option.
Fourth Year: To read Physics 480, Physics 520; Physics 440 or Physics 470 and 471; two senior Geology courses, Geology 455 and 458 recommended.

(c) Honors in Geology

Third Year: After "Geology 458" add "or Geology 461 and 464."

(d) Honors in Chemistry

Third Year: For Mathematics 420 or 404, read Mathematics 404.

(e) Honors in Mathematics

Third Year: To read Mathematics 421, 422, 425. One approved Mathematics option, (preferably 360.) Two options, at least one from another department.

(f) Honors in Applied Mathematics

Third Year: To read Mathematics 421, 422, 425, 430. One approved Physics option (preferably 480), an option from Physics or Mathematics.

It was noted that, in Honors Mathematics, the changes essentially concerned the substituting of three courses for two courses, but that the hours involved were six a week in each case. The general maximum requirement in Honors programs, therefore, was not violated.

The motion was carried.

5. Report of the Patterns Committee:

It was moved by Professor Thomas, seconded by Professor Cormack, that the following report of the Patterns Committee be approved:

(a) Geology

First Year: For Physics 200 read Physics 240.

Third Year: Geology--Two of Geology 454, 457, 458, 461 and 464; Geology 467; Special A or B course; an option; Chemistry 370, Geology Field School.

(b) Physics

Second Year: Physics 360, Physics 380, Mathematics 304, an approved option from Division C, Special A or B course.

Third Year: Two of Physics 400, 440, 520, or other approved senior Physics course, or Astronomy 410, or Chemistry 370, Mathematics 404 or 421 and 422.

(c) Special A and B Courses for B. Sc. Patterns:

Add: Philosophy 240, Psychology 202 and Sociology 202.

During the discussion which followed it was pointed out that Physics 478, to be taught only in Calgary, could be used there as an "approved senior Physics

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course" in the third year of the pattern. The original recommendation of the Patterns Committee had been for Mathematics 420 in the third year of the Physics pattern, but, since Mathematics 420 was no longer to be offered, Mathematics 404 or 421 and 422 were substituted.

There was some discussion on adding Philosophy 260 to the list of Special A or B courses allowed for the B. Sc. patterns in addition to Philosophy 240, Psychology 202 and Sociology 202. The Dean reminded Council of the committee set up to consider the content of the General Course, which might even abolish the list. He suggested that, since the latter three courses had been in the Special A and B list except for the session 1959-60, and were not changed in content as a result of the recent re-numbering, it was one matter to return these to the list, but another to make additions. Council agreed to defer a consideration of additions to the list, other than those recommended by the Patterns Committee, to Other Business.

The motion was carried.

6. Credit for Modern Language Courses at the Banff School of Fine Arts:

Council was reminded that since 1946 the Banff School of Fine Arts had been presenting some credit courses in Fine Arts subjects. Such credit was approved by the Arts and Science Faculty Council on January 7th, 1946, and by General Faculty Council on January 28th of the same year. It is now desired to have this privilege extended to courses in oral French and in Russian.

Dean Smith said that it was the opinion of Dean Coutts and himself, formed in discussions with the Director of the Banff School, that such a French course must possess an academic content that would make it a reasonable equivalent of one of our own French courses. He felt that the two Russian courses now offered, when taken together, appeared to be roughly the equivalent of Russian 200.

Professor Reinhold spoke to the proposal. The proposed French course would lay its stress upon oral and conversational French but there would be a sufficient emphasis upon grammar and literature to support the contention that it would be comparable with, although not identical to, French 200. Provided that there were

controls over this course and the safeguards were adequate, his department would support in principle the request for such a course.

One Council member felt that if the course was to be comparable with one of our courses, only matriculated students should be allowed to take it: at worst, the matriculated students should outnumber auditors. Another member with experience at Banff stated that students in existing credit courses who actually sought credit were in the minority. Most came to Banff for a holiday and picked up "a little learning" in whatever course was available for their limited stay, often not the full length of that course.

Library facilities at Banff, in the opinion of another speaker, were "shocking" and some assurance ought to be given that these would be made adequate. While agreeing with this statement in principle, Professor Reinhold noted that the oral French course would not need extensive library facilities. In answer to a question on the academic background of possible students, he stated that all who took the course would possess French 30 of High School. Council was also reminded that students could not obtain university credit for such a course unless, or until, they met the university entrance requirements.

Professor Reinhold said that assurance had been given that there would be a separation of some sort between credit and non-credit students. As far as course examinations were concerned, the university should control these and they would be marked using the same standards as were applied to a comparable university course.

Some members queried the need for such a course in view of the fact that French 200 normally was available at the ordinary Summer School. The Dean replied that the people most interested in such a French course were Calgary teachers who felt the lack of oral and conversational instruction necessary for language teachers. Many of these, he supposed, were unaware of the new language laboratory facilities on this campus.

Others pointed out that similar courses were offered by other universities.

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For example, the University of Western Ontario gave such a credit course at Trois Pistoles. Here, credit and non-credit students were kept separate.

The proposals to accept for credit the two existing Banff Russian courses were also considered. Professor Starchuk noted that the instructress in these was a well-qualified member of the staff of the University of British Columbia. Since Russian was not a language of matriculation, people did take these courses who were not matriculated, according to a former instructor at Banff, who raised for Russian, as already had been the case with French, the question of adequate safeguards.

To the notion that safeguards ought to be spelled out, one member wondered if this was the province of the Faculty of Arts and Science. The safeguards for junior colleges were cited: junior colleges were the concern of General Faculty Council and what was suggested for Banff might be cited as a precedent by these junior colleges.

The Dean read from the composite calendar (page 47) the regulations set down for junior colleges.

It was moved by Professor Reinhold, seconded by Professor Ryan that the Faculty of Arts and Science accept the principles laid down for the control of Junior College courses as those to be applied to courses bearing university credit offered at the Banff School of Fine Art.

The motion was carried, but not unanimously.

It was moved by Professor Reinhold, seconded by Professor Kreisel that university credit be allowed for a course in French at the Banff School of Fine Art, provided that it be equivalent at least to French 200.

This, the Dean said, implied the safeguards on examinations, etc., inherent in the previous motion. Examinations might be set here or the Department of Modern Languages be given the power of veto on proposed examinations. These details could be worked out later.

One member, disagreeing with the motion, felt that Council was assisting in the setting-up of a limited junior college at Banff. The primary purpose of such

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a course, as far as he could see, was to enable students to enjoy the mountains. To this, another replied that if such a course would enable hard-worked teachers to combine study with a bit of a holiday, this was all to the good, provided that they passed their examination.

The question was raised as to what would be done if, in the future, Banff wished to offer courses that have no equivalent here. The Dean replied that Banff had offered a course in playwriting of such a type. This would be hard to "police" but it could be done with the regulations for Junior Colleges in mind.

The motion was then put, and carried.

It was moved by Professor Starchuk, seconded by Professor Reinhold that credit be allowed for a course in Russian taken at the Banff School of Fine Art which is the equivalent of a course offered at the University of Alberta.

The motion was carried.

7. Other Business:

(a) Changes in the Honors Zoology Program:

It was moved by Professor Nursall, seconded by Professor Newbound that Zoology 625 be added to the Honors program in Zoology in the third year, and Zoology 520 and 625 in the fourth year.

Professor Nursall explained that through inadvertence this had not been brought before the Honors Committee, but it was essentially a change to allow the use of courses authorized by Council at the previous meeting.

There was some argument about the suitability of the number 625 for other than a graduate course, although Professor Nursall pointed out that the calendar description, including reference to the Honors program, had been passed at the last meeting of Council. It was agreed to refer the choice of a number/to the ^{and the requested changes} Honors Committee, which could report directly to the next meeting of General Faculty Council.

(b) Special A or B courses for B. Sc. students:

It was moved by Professor Mardiros, seconded by Professor Scott that

REPORT OF THE EXECUTIVE COMMITTEE

1. New courses and course changes:

(a) Department of Classics

Course Changes:

Classics 353 - Roman History - The Influence of the Roman Genius on the Western World 3-0;3-0

A study of the development of the Roman Republic and its expansion from city-state to empire. Particular attention will be given to the Roman methods of organization, law and government, and to the way in which the Romans impressed their culture on the Mediterranean world and on Western Europe.

Classics 356 - Early Civilization 3-0;3-0

The origin and development of human culture will be traced through the Palaeolithic, Mesolithic, Neolithic, Chalcolithic, Bronze and Iron Ages. Special attention will be given to Europe, the early civilizations of the Near East, and the Minoan Civilization.

(b) Department of Political Economy

Course Changes:

Economics 300 (60) - Intermediate Economic Analysis 3-0;3-0
An intensive study of the theory of value and the theory of distribution, with applications to public policy.
Prerequisite: 1 or 200 or 51 or 302.

Economics 310 (61) - Canadian Economic Development
Delete from the course description, "The development of national policy and problems of transportation receive special attention."

(c) Department of Chemistry:

The following are details of a new course which the Department of Chemistry in Calgary proposes to offer:

Chemistry 587 - Infrared and Raman Spectra 0-0;3-0
P. Krueger.

The lectures deal with the relation of infrared and raman spectra to molecular structure; experimental techniques; and effect of solvent and other factors influencing spectra. Current research literature in the field will be stressed.

(d) Department of History:

Course Changes:

History 322 - Germany since 1648 3-0;3-0

History 350 - Britain 3-0;3-0

A survey of the History of the British Isles.

History 500 - Special Subject

Delete (7) and add:

- (7) The history of British East Africa - R. W. Beachey
- (8) A period in the political history of Germany since 1648 - L. Hertzman
- (9) Other approved special subjects

History 502 - Medieval Europe

A seminar on selected topics from the history of medieval Europe.

History 512 - Europe since 1870

A seminar on selected topics from the history of Europe since 1870.

New Courses:

History 352 - The British Empire and the Commonwealth 3-0;3-0
A survey of the history of the British Empire and the Commonwealth.

History 526 - The British Empire and Commonwealth since 1815.

(e) Department of Geology:

Course Changes:

Geology 502 (102) - Sedimentary Petrology & Sedimentation 2-0;0-4
J. F. Lerbekmo.

Recent papers on sedimentary topics will be discussed at a weekly seminar during the first semester. Students will undertake a supervised laboratory problem in sedimentation or sedimentary petrography in the second semester.

Prerequisite: Geology 464 and consent of instructor.

Geology 507 (107) - Igneous and Metamorphic Petrology 0-0;3-3
R. A. Burwash

Discussion of classic and recent papers dealing with genesis of igneous and metamorphic rocks. Laboratory study of representative suites of thin sections.

Prerequisite: Consent of Instructor.

New courses:

Geology 461 - Geology of Petroleum, Natural Gas and Coal 3-0;0-0
J. F. Lerbekmo

Classification, mode of occurrence and geological characteristics of petroleum, natural gas and coal deposits.

Textbook: Levorsen, Geology of Petroleum.

Geology 464 - Introductory Sedimentary Petrology 0-0;3-3
J. F. Lerbekmo

Processes of sedimentation: weathering, transportation, deposition, diagenesis; classification and description of sedimentary rocks.

Textbooks: Pettijohn, Sedimentary Rocks 2nd ed.;
Folk, Petrology of Sedimentary Rocks.

Prerequisite or Corequisite: Geology 454.

Geology 508 - Precambrian Geology

3-3;0-0

R. A. Burwash.

A study of the geological record of Precambrian time, with special reference to the Canadian Shield.

Prerequisite: Geology 455 and 458.

Geology 461 is a half-year course now available in the Faculty of Engineering. This will be taken along with Geology 464 as a Geology option in the third year of Geology pattern if the pattern change allowing it is approved.

(f) Department of Mathematics:

Delete:

Mathematics 420 (57) - Advanced Calculus

3-0;3-0

Mathematics 350 (54) - Introduction to Modern Algebra

3-0;3-0

Add:

Mathematics 421 - Differential Equations

2-0;2-0

Standard forms. The general linear equation. Laplace transforms. Systems of equations. Bessel and Legendre equations. Some partial differential equations. Fourier series.

Textbook: L. R. Ford, Differential Equations (McGraw-Hill).

Mathematics 422 - Advanced Calculus

2-0;2-0

Series. Uniform convergence. Functions of two or more variables.

Vector analysis. Line and surface integrals. Multiple integrals.

Textbook: Courant, Differential and Integral Calculus, Vol II (Blackie).

Mathematics 425 - Modern Algebra

2-0;2-0

Integral domains. Congruences. Fields. Real numbers. Polynomials.

Complex numbers. Groups. Vector spaces. Matrix algebra. Linear groups.

Textbook: Birkhoff and MacLane, A Survey of Modern Algebra (Macmillan Co.)

Note: As a result of this change, Mathematics 404 will be substituted for Mathematics 420 wherever the latter appears in B. Sc. patterns.

Delete:

Math 440 (61) - Foundations of Analysis.

Change:

Mathematics 540 (101) to read: Theory of Functions of a Real Variable.

3-0;3-0

Introduction to set theory. The number system. Real and complex numbers. Cardinal and ordinal numbers. Stieltjes integrals. Measure theory. Lebesgue integrals.

Prerequisites: Mathematics 422 and 425, or equivalent.

New Courses and Course Changes not considered by the Executive Committee

(a) Department of Geography:

New Course:

Geography 200 - General Geography 3-0;3-0
An introductory survey course covering various aspects of the field of geography, including physical, human and regional.

Change in prerequisites:

Geography 400 - Anglo America 3-0;3-0
Prerequisite: A previous course in Geography, or consent of the instructor.

Geography 402 - Northern Lands 3-0;3-0
Prerequisite: A previous course in Geography, or consent of the instructor.

(b) Department of Physics:

New Course:

Physics 478 - Introduction to Cosmological Physics
B. G. Wilson
The historical development of cosmology. The sun and the solar system; stellar spectra; cosmic radiation and radio astronomy; theories of stellar constitution and an introduction to cosmological theory.
Prerequisite: Physics 200, Mathematics 200 or 201; or consent of instructor. (To be given in Calgary only).

Course change:

Physics 400
Change prerequisites to read: Physics 200, or 240 and 340, or 240 and 380; Mathematics 200 or 201.

Change in Honors program:

In third year Physics, Physics and Geology,

Change Mathematics 420 to Mathematics 421 and 422.

New Courses and Course Changes not considered by the Executive Committee

(a) Department of Geography

New Courses:

Geography 500 - General Geography
An introductory survey course covering various aspects of the field of geography, including physical, human and regional.

Change in prerequisites:

Geography 400 - Anglo America
Prerequisite: A previous course in Geography, or consent of the instructor.

Geography 401 - Northern Canada
Prerequisite: A previous course in Geography, or consent of the instructor.

(b) Department of Physics

New Courses:

Physics 428 - Introduction to Cosmological Physics
L. G. Wilson
The historical development of cosmology. The sun and the solar system; stellar systems; cosmic radiation and radio astronomy; theories of stellar evolution and an introduction to cosmological theory.
Prerequisites: Physics 300, Mathematics 300 or 301; or consent of instructor. (To be given in Calgary only).

Course changes:

Physics 400
Change prerequisites to read: Physics 200, or 240 and 250, or 260 and 270 and 280; Mathematics 300 or 301.

Change in honors program:

In third year Physics, Physics and Geology.

Change Mathematics 420 to Mathematics 421 and 422.

CHANGES IN HONORS PROGRAMS

Honors in Physics

First Year - change Physics 240 to Physics 242.

* Fourth Year - to read

Physics 510; Physics 550; Physics 570; Physics 571 laboratory;
three of Mathematics 500, Physics 516, Physics 520, Physics 540,
Physics 572. Other options in the Fourth Year can be arranged
in special cases.

Honors in Physics and Geology

First Year - change Physics 240 to Physics 242.

Third Year - Physics 360; Geology 454; Geology 457; Mathematics 420; an
A or B option.

Fourth Year - Physics 480; Physics 520; Physics 440 or Physics 470 and
471; two senior Geology courses, Geology 455 and 458 recommended.

Department of Mathematics:

Delete: Math. 420 (57) Advanced Calculus (3-0; 3-0)

Math. 350 (54) Introduction to Modern Algebra (3-0; 3-0)

Add: Math. 421. Differential Equations (2-0; 2-0)
Standard forms. The general linear equation. Laplace
transforms. Systems of equations. Bessel and Legendre equations.
Some partial differential equations. Fourier series.

Textbook: L. R. Ford, Differential Equations (McGraw-Hill)

Math. 422. Advanced Calculus (2-0; 2-0)
Series. Uniform convergence. Functions of two or more variables.
Vector analysis. Line and surface integrals. Multiple integrals.

Textbook: Courant, Differential and Integral Calculus, Vol. II
(Blackie)

Math. 425. Modern Algebra (2-0; 2-0)
Integral domains. Congruences. Fields. Real numbers.
Polynomials. Complex numbers. Groups. Vector spaces.
Matrix algebra. Linear groups.

Textbook: Birkhoff and MacLane, A survey of Modern Algebra
(Macmillan Co.)

Delete: Math. 440 (61) Foundations of Analysis

Change: Math. 540 (101) to read: Theory of Functions of a Real Variable (3-0; 3-0) Introduction to set theory. The number system. Real and complex numbers. Cardinal and ordinal numbers. Stieltjes integrals. Measure theory. Lebesgue integrals.

Prerequisite: Mathematics 422 and 425, or equivalent.

Page 54 of Arts and Science Calendar under Honors in Mathematics, read:

Third Year - Mathematics 421, 422, 425. One approved Mathematics option (preferably 360). Two options, at least one from another department.

Under Honors in Applied Mathematics, read:

Third Year: Mathematics 421, 422, 425, 430. One approved Physics option (preferably 480), an option from Physics or Mathematics.

Geology:

✓ Third Year - After "Geology 458" add "or Geology 461 and 464."

CHANGES IN PATTERNS

Geology:

First Year - For Physics 200 read Physics 240.

(This recommendation is made by the Department of Geology in consultation with the Department of Physics.)

Third Year - Geology--Two of Geology 454; 457; 458; 461 and 464.

Physics:

Second Year: Physics 360
Physics 380
Mathematics 304
An approved option from Division C
Special A or B course

Third Year: Two of Physics 400, 440, 520, or other approved senior Physics course, or Astronomy 410, or Chemistry 370
Mathematics 420 ~~404 or 421~~ and 422
Special A or B course.
An option.

Special A and B Courses for B.Sc. patterns:

Add: Philosophy 240, Psychology 202 and Sociology 202.

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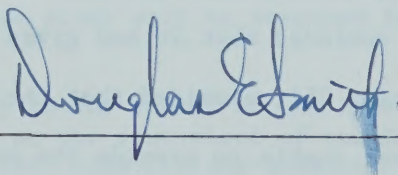
Philosophy 260 be added to the list of Special A or B courses for B. Sc. students to appear in the 1960-61 calendar, with the understanding that this and all other first year courses on this list would be considered as to suitability by the Committee on Curriculum for the General Course.

The discussion on this point had begun earlier, during which Professor Mardiros had expressed the opinion that Philosophy 260 being "a very verbal course," was highly suitable for inclusion in the list. Even if, as a result of the Committee on the General Course Curriculum, the Special A or B list for science students was to be abolished after the session 1960-61, he wished to see the course in question included for the one year.

The motion was carried with many abstentions.

The Dean then stated that, with this approval, other departments might wish to put forward other courses for inclusion on the list. No such suggestions, however, were made.

The meeting adjourned at 6.15 p. m.



Dean

The 487th meeting of the Council of the Faculty of Arts and Science was held on Monday, February 1st, 1960, at 4.30 p. m. in Room 213, Administration Building.

Present were Dean Smith, Chairman; Vice-president Cragg; Professors Baldwin, Blackley, Collier, Cook, Cormack, Cree, Crichton, Crosby, Davis, Duggan, Eaton, Elder, Empey, Farnham, Folinsbee, Fostvedt, Gainer, Garland, Gibb, Goodale, Grayson-Smith, Guy, Hanson, Hardy, Harris, Harrold, Hirabayashi, Jones, Keeping, Kreisel, Lowig, McIntyre, McKenzie, McNamee, Mandel, Mardiros, Narayana, Newbound, Penelhum, Prince, Reinhold, Ryan, Salter, Scott, Starchuk, Thomas, von Richthofen, Wonders; and the Registrar. Present also, on the invitation of the Dean, were Professors Kyle and Presching from the School of Commerce.

The Dean noted the presence of Vice-president Cragg and of two Calgary members of Council, Professors Guy and Prince. He explained to Council that Professor Harries was unable to be present to speak for the proposed program of the School of Commerce, and that he had asked Professors Kyle and Presching to attend the meeting to answer any questions that might be asked about this program.

1. Minutes of the Meeting of January 4th, 1960:

The Dean noted that the description of Statistics 305 on page 4 of the circulated copy of the minutes had been omitted. On page 8, Russian 200 should be amended to read Russian 300.

Subject to these corrections, it was moved by Professor von Richthofen, seconded by Professor Mardiros that the minutes be approved as circulated. Carried.

2. Business Arising out of the Minutes:

Council was reminded that it had given a conditional approval to the proposed honors course Genetics 351, provided that the course description was amended. Professor Unrau had been unable to provide the necessary amendment in time for the meeting of General Faculty Council. He would refer the matter again to Council at a later date.

There had been some discussion at the last meeting of Council on the number 625 previously approved for an undergraduate course in Zoology taken in both the third and fourth years of Honors Zoology. The Honors Committee had been empowered to consider the matter and to report directly to General Faculty Council. At General Faculty Council Professor Nursall had agreed to renumber the course as Zoology 525.

Council also had approved the offering of a French course for credit at the

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Banff School of Fine Arts, comparable at least to French 200. A meeting had subsequently been held at which were present representatives of Alberta High School French teachers, representatives of the Department of Modern Languages and of the Division of Secondary Education, as well as the Dean of Arts and Science and the Dean of Education. Here it was agreed that examinations for the new course would be the responsibility of the Department of Modern Languages, which would seek assistance and advice from the instructional staff at Banff. It was further agreed that in the new course there would be a minimum of twenty hours per week in formal instruction, comprising ten hours devoted to literature and grammar, and five hours to instruction in phonetics and diction. The first two items would be comparable to the material offered in the Summer Session of this University; the third item would be additional. Students taking this course would be segregated for formal instruction from other students taking conversational French courses.

The Department of Modern Languages had taken the responsibility for preparing a calendar description for the proposed new course, and proposed the following:

French 200 Su: - First Year University French (10-10)

An intensive course including grammar, composition, phonetics, diction, conversation and literature.

The practical aspects of language study will be stressed by using aural-oral methods.

This course will be offered only in the summer at the Banff School of Fine Arts. It will be considered to be the equivalent of the University's French 200 and to constitute a full load for one session.

Prerequisite: University matriculation including satisfactory standing in French 30 (Grade XII) or its equivalent.

It was moved by Professor Reinhold, seconded by Professor Kreisel, that this course description be approved for insertion in the calendar of the Banff School of Fine Arts. Carried.

The Dean drew attention to the January 4th, 1960, decision of Council to include Philosophy 200 in the list of approved A and B options for Science students. This decision had been taken at the close of the meeting when some members had departed. He asked if there were any other departments wishing to make additions to

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this list.

Professor Reinhold stated that his department offered three suitable courses. These were Russian 350 (Russian Literature in English,) Romance Literature 350 (Romance Literature in English,) and Linguistics 400 (General Linguistics.) It was moved by Professor Reinhold, seconded by Professor Starchuk that these courses, all given in English, be added to the list of Special A and B courses for B. Sc. patterns, and carried.

Professor Nursall suggested that scientific Russian and scientific German be added to the list (i.e. Russian 210 and 310 or German 210 and 310.) He moved, seconded by Professor von Richthofen that the term "other than a beginning course," be deleted from the regulation concerning languages for the A or B options for B.Sc. students, and that there be substituted "where a beginning course is chosen, the student will be required to take a second course in the same language in the following year."

The Dean reminded Council that beginning courses in languages had been excluded specifically from this list since they had seemed not to provide what the science students needed - "some broad training in the humanities and social sciences." Moreover, courses in scientific Russian and German had been designed as special courses for students who needed language training for graduate study. As a concession, honors students had been given the opportunity to obtain this knowledge in their undergraduate program. Students in the general course, normally, were allowed to take such a course only as the open option of the third year. Some exceptions had been made for good students by the Dean, who had been given authority to adjust the patterns of such students; but he had used this power only on rare occasions.

It was also pointed out to Council that a second year General Course science student could, with the permission of the Dean, take a beginning language course, to be used as the third year open option. His position would be regularized in third year by taking two Special A or B courses, one of which could be a second course in the language chosen, but not a scientific language course.

The Secretary pointed out that there were two matters involved in the motion.

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One was the advisability of allowing beginner's language courses for the Special A and B options; the other was the wisdom of accepting scientific language courses as A options in the A and B list. He felt that some members of Council might favor one but not the other.

Professor Reinhold spoke on the nature of scientific language courses. There was, he admitted, some difference between the scientific courses and the ordinary beginner's language courses. The grammar, the basic vocabulary and syntax were the same for both but there was a different teaching approach. Scientific language courses could not lay stress upon a broad vocabulary, and also had to omit some of the finer points in grammar and composition; but there was no omission of the basic knowledge upon which was founded the study of the language concerned for any purpose. The scientific courses overlapped to a considerable degree with the ordinary language courses and they were not as specialized as many seemed to think. Professor Starchuk, speaking on Scientific Russian, said that a student could get a sound basic knowledge of Russian in Russian 210.

Against this it was argued that such students read scientific literature, not general literature, and thus did not experience the broadening and humanization that came with the study of another civilization and culture. To allow pattern students to take such courses was a further step towards making the patterns junior honors programs.

One Council member stressed the fact that the scientific language courses were concessions granted to honors students and honors students only. These people normally were preparing themselves for graduate work in which they would have to read scientific literature in other languages. This was not the case with the ordinary patterns student and the scientific language courses should not be thrown open to students who would never do graduate work. If a student in a pattern is of the calibre to do graduate work, he could take advantage of the special arrangements now made by the Dean.

The motion was defeated.

During the discussion attention was drawn to the sentence appearing in the

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description of German 210, which read, "Science students in the general course may also register in German 210 but will be required to complete successfully a second year of German (German 310) before credit will be granted in German 210." It was agreed that this sentence, as well as a similar sentence appearing in the description of Russian 210, was incorrect and should be deleted in the 1960-61 calendar.

3. Proposed program for the Bachelor of Commerce:

In the absence of Dr. Harries, the Dean gave a few words of explanation on the proposed new four-year commerce program. Basically, this proposed program was an extension of the B. Comm. program from three to four years, with a reduction of courses taken each year from six to five, bringing the sessional class-load back in-line with Arts and Science patterns. There were two common years for all students, each of which would continue for two more years either in a general course or in a field of specialization. This much had been approved in principle by December of 1959 in the School of Commerce Council. The details had been worked out since and it was the hope of the Director of the School of Commerce, Dr. Harries, that the program would be approved for the consideration of the February meeting of the General Faculty Council.

In the first draft, there had been an Arts and Science option in each year. This option now was somewhat restricted. He had been informed by Dr. Harries, however, that the option would normally be an Arts and Science course, but with the permission of the Director, a student might substitute a course in his field of specialization. Such permission would be given only in very rare cases.

The proposed program had been considered by the Institute of Chartered Accountants. It was the feeling of this group that there was too much specialization in the Accounting program. To meet this criticism, expressed earlier, more general courses had been included in the program now before Council. The Institute felt that there were still too many accounting courses: they felt that five should be the maximum, whereas there were six in the revised program.

The Dean pointed out that General Faculty Council was the authority which dealt with professional bodies; this Council, however, might well consider the issue

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of specialization. Finally he pointed out that the Commerce Council, containing representatives from the departments of Accounting, Business Administration and Economics, had debated at two meetings the proposed program now before Council, and that much work had been done in preparation for these meetings.

It was moved by Professor Hanson, seconded by Professor Goodale, that the program be approved.

Council was informed that the new program would supersede the Honors program in Business Administration, and the Honors program in Commerce with Honors in Political Economy. The junior Arts and Science option in first year was so designated that it must be a junior course; in the second, third and fourth year the options normally would be senior courses but might be junior courses.

Dr. Cragg, the Vice-president, then spoke at length to Council. He had examined the proposed program, and while he felt that this was a step in the right direction, it did not go far enough. It was his personal conviction, and that of many educationalists generally, that professional courses ought to be more generalized and less specialized than they had been in the past. This idea was reflected in the programs of new faculties and schools of Commerce, Medicine and Engineering. The trend to provide solid general education in a specialized program of studies was a sound one. The whole question was dealt with in the Ford Foundation Study, Higher Education for Business, whose conclusions were confirmed by other studies.

The increasing complexity of modern business brings a need for a very flexible type of education and training. There must be more emphasis on general and less emphasis on specific courses. In a Commerce program at least half of the courses should be Arts and Science courses: preferably 50-63% of time allowed should be spent on background studies. Dr. Cragg had attempted to analyze the Commerce programs. He admitted that this was not an easy task, since some courses had some general educational value but might also be considered "tool courses." He had tried to follow the guide contained in the Ford Foundation report.

Only in one of these programs, and that not the General Course, would the desired minimum of general educational courses ever be achieved.

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There were not enough general courses for the latter, nor were students given sufficient guidance in the selection of optional courses. Young people tend to emphasize their vocational interests and needs and always wish to take courses in conformity with this emphasis if given a choice between specialized courses and courses of a general educational nature. The Ford Foundation Report recommended that such students be required to take at least two courses in English, one in pure or general mathematics, at least one course and preferably two in the natural sciences, a half-course in Psychology and a half-course in Sociology, as well as one course in History, one in Political Science and one in Economics. These, he added, were minimal requirements. In the proposed program, the only Arts courses specifically mentioned were English, Economics and a tool course in Psychology. At least areas of choices should be spelled out for the options. He wished to see the qualifying clause, "with the permission of the Dean," removed from options, since the Dean can always make exceptions.

Dr. Cragg wondered if it might not be possible to refer the document back to the School of Commerce for amendment along these lines, to be sent then directly to General Faculty Council. The Vice-president then had to leave the meeting and took no further part in the long discussion that followed.

One council member, after commenting on this "most refreshing and inspiring statement," wondered if a language should be added to the compulsory courses in the proposed program. It was possible that a language might be regarded as a "tool" course. He was informed that the Ford Foundation Report recommended that a language be included but not "Business French."

Another speaker felt that the proposed program "tried to straddle two objectives and failed in both." It was an attempt to construct a professional degree at the undergraduate level, with a smattering of Arts courses. A combined B.A.-B.Comm. of five years might be better. Best, perhaps, would be a B.A. first,

In reply, a member stated that a good deal of thought had gone into the problem raised. Should Commerce exist at the undergraduate level at all? This had been debated in the School of Commerce Council, where the decision was that both an under-

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graduate and a graduate program were desirable, but the latter must await the firm establishment of the former. Obviously there was a difficulty in giving students both a general and a specialized education in only four years. The program under discussion was an honest attempt to solve the problem of this dilemma. He felt that the criterion for classing a course as a general educational course was subject to different interpretations. If the Mathematics and Economics and Psychology courses were classed as general educational courses, and not as "tool courses," the general educational content in the proposed program would be probably about 50%. Even obvious tool courses could be presented in a way which was not strictly technical. The School of Commerce would have to compete for its students with schools and faculties with more specialized programs, and any further generalizing might have disastrous results. The proposed program contained a moderate degree of specialization, with what the speaker thought to be a reasonable general education.

A member of the School of Commerce stated that without a doubt all would prefer a B.A. first before specialization in Commerce: he had taken this approach himself. But we must be realistic and the proposed program was the best compromise. The Advertising program, for example, did not hope to turn out people ready to step immediately into the field of advertising as specialists: they would have some training in that field, but some training only. Under the revised program students would have grounding in all of the various fields of Business, with some training in an area of special study.

A vital issue, said another speaker, had been raised by the Vice-president. Do we want this kind of a degree program at the university, or should the university be concerned primarily with the educational programs that it alone can give? He wondered if there was any real urgency for the immediate approval of the Commerce proposals. Should not the Faculty take adequate time to settle this fundamental question?

The Dean stated that Council had several alternatives:

1. Approve the program in its entirety and forward it to General Faculty Council.

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2. Approve the program in principle, but ask the Commerce Council to reconsider certain details, bringing the program back here, or taking it straight forward to General Faculty Council.
3. Send the program back to the School of Commerce for a thorough revision.

A number of points had been raised in an area in which members of this Council might be biased. If principles of professional education were to be debated, perhaps General Faculty Council should be the arena for such a debate, since other professional faculties were represented there.

To the Dean's remarks, some additions were made by another Council member. The proposed program was no more highly specialized than that approved for the School of Physical Education. This was handled by the Board of Governors and General Faculty Council. The School of Commerce was obliged to work through Council and this, in the past, when it was "an uneasy School," was perhaps a good thing. The old conditions, however, no longer prevailed.

It was moved by Professor Kreisel, seconded by Professor Keeping, that the qualifying note, "with the permission of the Dean," linked with the options, be removed from the proposed program.

The amendment was carried.

A number of questions were raised. Dr. Cragg had not specified what he meant precisely when he said that the program was a step in the right direction. The Dean replied that, judging from a conversation before the meeting, he probably meant that there were more Arts and Science courses in the proposed program than in the old B. Comm. program, but that there should be still more.

The question was raised of the future of the present B.A.-B.Comm. combined course. Presumably it would be superseded by the new program but it might continue as a six-year program.

On the Ford Foundation Report (of which some twelve copies were available to people concerned,) Council was informed that this suggested four courses in the humanities and fine arts, two to four courses in natural science and mathematics, four in the social sciences (one of which would be an Economics course,) for a total of ten to twelve courses.

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In defence of the Commerce proposals, it was noted that the old Commerce program had seven Arts and Science courses in three years. The proposed program had ten in a four-year program, the extra year allowing a few more business courses as well. It was a better and more flexible program than the one now in operation.

The motion to approve the program was defeated by a vote of 14 to 20.

It was moved by Professor Scott, seconded by Professor Nursall that this matter be referred to General Faculty Council for debate.

When asked whether the fundamental principle involved would be discussed by General Faculty Council, Dr. Scott replied that he considered the request for such a discussion implicit in his motion.

A member now asked why Commerce was singled out for condemnation with specialization the sin. If specialization was to be discussed, should not General Faculty Council consider all professional programs?

The Registrar felt that Council might be interested in what he thought was the basis of the opposition of the Institute of Chartered Accountants. The Institute training is on an apprenticeship basis, with correspondence courses from Queen's University. Commerce graduates are exempted from the necessity of writing the primary and intermediate examinations and from two years of articles, provided that they secure second-class standing in two specified advanced accounting courses.

The failure rate in the C. A. examinations is extremely high: it would be higher still were Commerce students not included in the higher years statistics. The Institute has a vested interest in its apprenticeship system, and would probably oppose the introduction of any training program that might jeopardize this system. With an increased accounting content in the Commerce program such a danger might exist. He was convinced that the proposed program had as many Arts and Science courses as those of other professional faculties.

The suggestion was made that it might be wise to see what might be done with the combined Arts and Commerce course. This, the Dean explained, had been deferred until the proposed program had been considered.

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According to the Ford Foundation Report, Council was informed, the ideal was a three-year B.A. program followed by a two-year purely business course. It was felt by one member, however, that this ideal five-year program implied an opulent society and that the four-year program was a compromise between the present three-year program and the five-year ideal.

An amendment was moved by Professor Goodale, seconded by Professor Collier, that the first two years of the program be approved, with the remaining two years to be referred to General Faculty Council for its consideration.

It was the opinion of one member that the extent to which there should be specialization in any program was the concern of General Faculty Council. The two final years of the Commerce program were the professional years. Another felt that the sooner the question was settled the better. It was unfair to force the School of Commerce to defend in Arts Council a matter that was the concern of General Faculty Council. The School needed some clear guidance as to the amount of specialization that was acceptable and this guidance must come from General Faculty Council. To this an objection was raised that some of the specialization came in the first two years and this presumably would not be discussed if the amendment was carried.

The amendment was defeated and the motion to refer the principle to General Faculty Council for debate was carried.

4. Report of the Honors Committee:

The Honors Committee had agreed that Physiology 411, currently taken by students in some Honors programs in the biological sciences, was unsuitable. This course was designed for medical students and began earlier than the term in Arts and Science and carried on after the Arts and Science term had ended. The following new course was brought forward as suitable for the needs of such students, since it covered that portion of Physiology 411 given during the Arts and Science term and could be used after Physiology 361:

Physiology 463. Human Physiology

(4-6;4-5)

A course designed for students in Honors programs in biological science, similar to Physiology 411, but less extensive in content. It includes a study of the

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circulatory, digestive and respiratory systems, and the phenomena of digestion, absorption, metabolism and excretion; a study of nerves and synapses, muscle, spinal reflex systems, brain centres and tracts, the special senses, the autonomic nervous system, and aspects of behaviour (corresponding to Physiology 462;) and a presentation of the principles of action of endocrine glands and detailed treatment of several of these glands. The course content is offered in lectures, demonstrations, laboratory exercises and seminars. Clinical demonstrations are included. Textbooks: Bell, Davidson and Scarborough, Textbooks of Physiology and Biochemistry, 4th ed.; Fulton, Textbook of Physiology, 17th ed.; Bard, Medical Physiology, 10th ed. Reference texts: Davson, Textbook of General Physiology; Rushmer, Cardiac Diagnosis; Eccles, The Neurophysiological Basis of Mind; Eccles, The Physiology of Nerve Cells; Turner, General Endocrinology, 2nd ed.

It was moved by Professor Collier, seconded by Professor Starchuk, that the proposed course be approved and accepted as a substitute for Physiology 411.

The motion was approved.

Council was informed that General Faculty Council was to discuss a proposal to extend the general University term. The Faculty of Engineering wished to lengthen the term by starting two weeks earlier than is presently the case. Approval had been given to the proposals of the Faculty of Engineering, but this approval had been made contingent upon the results of a discussion on a general lengthening, which was to take place at a special meeting of General Faculty Council. The Dean wished to know what was the opinion of Council and, if the lengthening was approved, where that lengthening might best take place.

It was pointed out that Law had recently lengthened its term. Law, like Medicine and Dentistry, however, has no freshmen, and what these Faculties do is of no concern to Arts and Science. What Engineering does, however, does concern this Faculty in that certain courses given to Engineers are given by members of Council.

General Faculty Council, in its discussion, would consider the length of the session, the length of the two terms within the session, and when term examinations would take place. It was possible that the session would be divided into equal terms, with the term examinations either just before Christmas or in January.

One member felt that the terms could be equalized without adding appreciably to the length of the term. If term examinations were held between the 7th and 10th of January, two terms of 76 or 77 days could be set up.

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One of the problems seemed to be the scheduling of final examinations for half-courses, and one of the reasons for the proposals of the Faculty of Engineering was to provide adequate time for such examinations. A member questioned the need for half-course final examinations at the end of the first term: why could they not be held at the normal time? The present regulation covering half-course finals examinations stated that these would be held "at reasonable and convenient times." He did not feel that the extension of the term to provide time for such final examinations was either reasonable or convenient.

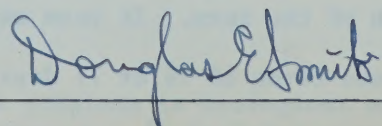
Half-courses, it was asserted, needed two equal terms, and the Spring term was longer than the Fall term. It was suggested that an adjustment could be made by shortening the Spring term, just as easily as lengthening the Fall term.

There were objections to the suggestion that mid-term examinations could be held in January. To do so would spoil the holidays of the students, who probably would not spend their Christmas vacation studying even if the change was made. Examinations before Christmas provided a clear break between terms, which was more desirable than an artificial break in January.

Some attention was devoted to the notion of increasing the term at one end or the other. To increase the term at the Spring end might be more desirable, if a lengthening was necessary, since this action would affect student employment the least. Lengthening the term at the Fall end would deprive students of some summer employment, and would raise the problem of transcripts for freshmen who hoped to enter university by supplementals whose results might not be available.

Professor Ryan said that any ideas that Council members might have on this question would be of interest to General Faculty Council. Those who were not members of that body could pass these on through the Dean's office if they wished to do so.

The meeting adjourned at 6.30 p. m.



Dean

The 488th meeting of the Council of the Faculty of Arts and Science was held on Monday, April 4th, 1960, at 4.30 p. m., in Room 213, Administration Building. Present were Dean Smith, Chairman; Vice-President Cragg; Professors Allen, Baldwin, Bhatia, Blackley, Charlesworth, Collier, Cormack, Cree, Crighton, Crosby, Davis, Davy, Duggan, Eaton, Elder, Empey, Farnham, Gibb, Glyde, Godfrey, Goundrey, Grayson-Smith, Harris, Harrold, Hirabayashi, Horton, Keeping, Kennedy, Lerbekmo, Lowig, McKenzie, Marzanos, Newbound, Nursall, Penelhum, Phibbs, Reinhold, Robinson, Ryan, Salter, Schiff, Spencer, Starchuk, Stelck, Thomas, Whitney, Whyte, Wilson, Wonders, Wyman, Woods; and the Associate Registrar, Mr. Hawes.

The Dean welcomed Professors Charlesworth (Geology), Goundrey (Political Economy) and Lerbekmo (Geology), as new members of Council, and noted the presence of ^a ~~two~~ Calgary members, Professors ^{Challice (Physics)} ~~Schonfield (Psychology)~~ and ~~Wilson (Physics)~~.

Mr. J. J. Stewart, the new Secretary of the Faculty of Arts and Science was introduced to Council. It was noted that his predecessor in this office, Professor Blackley, would now be known as Assistant Dean.

1. Minutes of the Meeting of February 1st, 1960:

Subject to the addition of the name of Professor Nursall to the list of those present, it was moved by Professor Wonders, seconded by Professor Penelhum that the minutes be approved as circulated. The motion was carried.

2. Business Arising out of the Minutes:

(a) School of Commerce Program:

Council was informed that the proposed four-year program of the School of Commerce, debated on February 1st, 1960 and referred to General Faculty Council, had been approved by General Faculty Council. The Dean reported that, effective September 1st, Commerce would become the tenth university faculty.

(b) Extension of the General University Year:

Council was informed that, at the February meeting of General Faculty Council approval had been given to an extension of the first university term into January and mid-session examinations in January. The general university year would be somewhat extended, as had been explained at the last meeting of Council. The Dean noted that there had been some student protest over this decision, but President Johns had replied requesting those who had written to him to give the new scheme a fair trial. There would be a later reconsideration of the decision.

3. Maximum Load in the Summer Session:

On December 7th, 1959, Council had discussed the problem of class load in Summer Session, at the request of the Summer Session Committee. A statement had been forwarded to the Summer Session Committee recommending the limiting of Summer Session registration to one course.

The Council of the Faculty of Education had also considered this problem, with a knowledge of the decision of the Faculty of Arts and Science. It was the opinion of that council that any restriction on Summer School registration, now "geared to a two-course-per-summer registration," would need to be negotiated between the Minister of Education and the Board of Governors. The Faculty of Education gave as its opinion that one must so interpret item 1 of the Memorandum of Agreement (1942) and suggested that a discussion of this matter with the Minister (through the Advisory Board of Teacher Education and Certification) was essential.

The majority of the students affected by such a change in course load would be teachers. The Faculty of Education and the Alberta Teachers' Association had been trying to improve standards in the teaching profession but was faced with a backlog of teachers who had completed their basic training some time ago, mostly before the University had assumed its present responsibility. While the Faculty of Education looked forward to the implementation of the Cameron Commission report on teacher education, which would reduce the demand for junior courses at summer school, there would still be the large group whose qualifications must be improved. For these to go forward at the rate of one course per Summer Session would be "a rather weary prospect," since a matriculated teacher with a basic year of teacher education would need sixteen or seventeen summers for a B. Ed. degree, in contrast to the present nine. Probably such people would go to other western Canadian or American Universities and this would be unfortunate, since the University of Alberta should serve the people of this Province.

Accordingly, the Faculty of Education Council passed the following motion:

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MOVED that any action by the Summer Session Committee on the recommendation of the Faculty of Arts and Science to limit the Summer Session registration to one course be delayed until a representative committee from the Faculties of Arts and Science and Education have discussed the matter fully and have made a further recommendation to the Summer Session Committee.

Dean Smith gave his opinion that the Summer Session Committee was such a representative committee.

The matter had then been fully discussed again by the Summer Session Committee, which had presented the following revised regulations for approval:

1. A student may be permitted to register for two courses in the Summer Session, provided that:
 - (a) His total weekly class load, including lectures and laboratory requirements, does not exceed twenty-five hours.
 - (b) His previous record of achievement is satisfactory. (Marks below 60% are not considered satisfactory.)
2. Under no circumstances will a student be permitted to register in more than two full courses in a Summer Session.
3. No student may offer for credit in any period of twelve consecutive months more than three courses taken by a combination of attendance at Summer Session, Evening Credit Program and late afternoon classes, or extra-mural study.

The Education Council also discussed these revised regulations at its March meeting, and the following recommendation was then passed:

1. A student may register for two courses in a Summer Session provided that his previous record of achievement is satisfactory
2. Under no circumstances will a student be permitted to register in more than two full courses in a Summer Session.
3. Normally no student may offer in any period of twelve consecutive months more than three courses taken by a combination of Summer Session, Evening Credit Program and late afternoon classes and extramural study.

The Education Council also passed a recommendation to the effect that before any change which would affect significantly the load to be carried by students in the Summer Session, there should be adequate prior warnings of those concerned (largely teachers,) and that before any such change is made the whole matter of Summer Session load should be studied in relation to the provisions for Summer Session offerings in other Canadian and neighbouring American Universities.

The Dean, noting the omission of any reference to a twenty-five hour limit in the recommendations of the Faculty of Education Council, asked for discussion on the problem of Summer School loads.

The discussion began with the observation that item 1 (a) in the proposals of the Summer School Committee could only lead to a reduction in the number of science courses taken by teachers. The speaker recently had been assisting at Biological Workshops, an experience which convinced him that more, not less, science courses would be desirable. While he realized the problems which had led council to recommend a restriction to one course, he wished to hear other expressions of opinion.

Another member sympathized with this point, but stated that in his experience students who coupled a laboratory course with another usually got low marks in both. If it was agreed that a laboratory course given at Summer School was supposed to be the same as if it had been taken in the winter session (and teachers state that this is what they want,) such a laboratory course is all that a student can handle.

It was explained that the figure twenty-five hours maximum was no accident. There are a few science courses with a five hour laboratory in the Summer Session, and a student could take one of these and one non-laboratory course. He could not however take a full laboratory course and a non-laboratory course.

The suggestion was made that some of the science courses might be divided in two. A student could take one half one summer and the remaining half the next. The Dean replied that this could be done if the department concerned presented the necessary calendar changes.

A member of the Summer Session Committee noted a point of interest that had been discussed at the Summer Session Committee's meeting. Two deans present had emphasized their willingness to require the withdrawal from a course of a student who had shown himself inadequately prepared in the preliminary examination if the instructor felt that this was so and wished the withdrawal.

In reply to a query, the Dean stated that item 2 of the Summer Session Committee

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proposals ("Under no circumstances will a student be permitted to register in more than two full courses in a Summer Session") applied to all students who wished the courses for credit, including graduate students.

The Dean was asked if he did not feel that item 3 of the same proposals limiting courses taken by a combination of attendance at Summer Session, Evening Credit Program and late afternoon classes, or extramural study, worked a hardship upon teachers. Now these could take two in the winter and two in the summer.

The Dean replied that he did not. The aim of this suggestion was to prevent such people from taking on four such courses. If they taught and took two courses in the winter they had no time to prepare for two more in the Summer Session courses.

Council was informed that these recommendations, if adopted, would not be in effect until 1961. The Assistant Dean stated that the twenty-five hour rule was being enforced in Arts and Science for the 1960 Summer Session. There had been occasional breakings of the rule in the past, but to date only one student who had a first class average and who hoped to graduate had been allowed a more than twenty-five hour registration for the 1960 Summer Session.

It was pointed out that the Faculty of Education Council had approved the recommendations of the Summer Session Committee with the exception of item 1 (a). The body responsible for the regulations governing Summer School is General Faculty Council, of which the Summer Session Committee is an advisory body.

It was moved by Professor Thomas, seconded by Professor Wonders that the recommendations of the Summer Session Committee be adopted without change. The motion was carried with one against.

4. Calendar Changes:

Council was reminded that the January meeting had been the deadline for the approval of new courses for the 1960-61 session. After this meeting, the members of the History Department in Calgary indicated their desire for the approval of a number of History courses designed specifically for Calgary. The President,

however, had indicated that it was too late for these courses to be approved for 1960-61. The History department, nonetheless, wished to seek approval now of these courses for 1961-62.

The courses had been considered by the Executive Committee and had met with that Committee's approval. The Committee in giving that approval was aware that an important principle was involved. If approved, the courses would be the first occasion upon which a marked difference would exist between the offerings of a department in Edmonton and in Calgary. The Dean and the Executive Committee felt that this was in line with the proposed development of Calgary approved by Council two years ago. Undoubtedly other departments would introduce changes of a similar nature in the near future.

The proposed courses were:

History 305 - Europe from the Peace of Westphalia to the French Revolution (3-0;3-0)
G. M. Self.

Not offered in 1960-61. Offered in 1961-62 and in alternate years.

History 307.- Europe, 1789-1870 (3-0;3-0)
G. M. Self.

The absorption of the French Revolution into the complex of European ideas.

History 309 - Europe, 1870 to the present (3-0;3-0)
F. G. Heymann

The Immediate background of contemporary Europe.

History 325 - Eastern Europe, including Russia. (3-0;3-0)
F. G. Heymann

A Survey, with particular reference to Russian History from the
Kievan period to the present.

History 327 - The Balkans (3-0;3-0)

G. M. Self

A Survey, with special emphasis on the Turkish regime and after.

History 440 - Africa (3-0;3-0)
G. M. Self

A survey, with special reference to European penetration and African reactions. Not offered in 1960-61. Offered in 1961-62 and in alternate years.

In Edmonton, European history from 1648 to the present was dealt with in two courses; if the new courses were approved the same period would be dealt with in Calgary in three courses. The variation was desired to suit the needs and

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interests of the staff there. History 325 was similar to, but not identical with History 324 (Russia), and was designed for Professor Heymann who was a specialist in middle European History, particularly Czech history. History 327 and 410 represented the particular interests of Professor Self. Approval of these proposed courses now would give those concerned time for some publicity and the building up of library resources.

Approval was sought also for one other course:

Music 460 - Composition

(1-0;1-0)

Robert Stangeland

A sequent course to Music 450. Writing in various forms with emphasis on 20th century techniques. Only those students who show marked ability in composition will be admitted to the course.

Prerequisite: Music 450.

The Dean noted that this course in composition, which would be given next session in Edmonton, also had been considered by the Executive Committee. It was to be a part of the B. Mus. program and would fill a marked need.

It was moved by Professor Brodie, seconded by Professor Hanson, that the courses be approved. The motion was carried.

5. Petitions:

The Assistant Dean reported on decisions taken by the Executive Committee:

1. Mr. R. E. Stephens: Mr. Stephens, a music supervisor in the Edmonton School System, was refused permission to take Music 350 and Music 400 extramurally and advised to obtain equivalent courses in the Summer Session of some approved University.

2. Miss M. A. Liviero: Miss Liviero was allowed to complete the requirements for the B. A. after the B. Ed., with credit in only one science course. Provided that she completes this science course Miss Liviero will have taken the required number of courses for such a second degree but will be deficient in the required sciences. A mistake in calculating her credits had been made, and had not this been the case, Miss Liviero would have met the requirements as laid down.

3. Mrs. Vera Clooney: Mrs. Clooney was allowed to count towards a B. A. after a B. Ed. an extramural course taken at Queen's University which was not counted on her B. Ed. Mrs. Clooney had taken nine extramural courses, four of which were counted on her Education degree. This credit would allow her to count the equivalent of one year (five courses) from her extramural work.

6. Appointments:

Council was reminded that the General Science pattern was administered by a committee composed of Professors Davis, Nursall and Crosby, since the students

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taking it were not attached to any particular department. These staff members registered new students in this pattern and were in charge of Tentative Course Selection forms for those students already in the pattern. In addition, they could be consulted on general academic problems by the General Science pattern students.

Professors Davis and Nursall had many other responsibilities. In order to lighten their load, the Executive Committee recommended the appointment of a fourth staff member to this committee. The Executive Committee had nominated Professor Trainor, who had agreed to act if appointed by Council.

It was moved by Professor Ryan, seconded by Professor Starchuk, that Professor Trainor be so appointed. The motion was carried.

Professor Harrold rose to say that he had listened to the previous discussion "in stunned silence." He had been a member of the original committee set up to administer the General Science pattern along with Professor Whyte. To the best of his knowledge he had not been relieved of this responsibility, but admitted that these responsibilities had not been extensive. He wished to know if he was no longer a member of this committee. The Dean replied that he could not answer this question immediately: he would ask the Faculty Secretary to consult the minutes of Council for information.

7. The British Universities Summer School:

Council was reminded that at its session of December 7th, 1959, it had approved the action of the Executive Committee allowing credit for courses taken at the British Universities Summer Schools provided that suitable courses were taken. A motion to give no credit at all, however, had been defeated by a narrow margin.

Since that date the Executive Committee had considered again the granting of such credits with the assistance of further letters on the subject from Mr. Jessup, the Secretary of the Delegacy for Extra-Mural Studies at Oxford University, Dean J. F. Leddy of the University of Saskatchewan, and Miss W. Bamforth, Secretary of the Joint Committee for Summer Schools, Department of Extra-Mural Studies,

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University of London. The Dean had written to certain departmental heads who would be most concerned, and, of these, Professor Jones had replied at the greatest length.

Dean Leddy had visited Oxford during the course of the 1959 Summer School there and had been much impressed by everything he saw and heard. Moreover at Saskatchewan it had been agreed that "a student who attends a British University Summer School can receive credit with us for one class, provided that he can present a statement from the administrative officer of the summer school in question, indicating that he has satisfactorily completed the course." As Dean Smith noted, one course was the maximum for Summer School at Saskatchewan.

The general impression from the other letters was that these Summer Schools were restricted to Graduate students and senior undergraduate students. A pamphlet from the University of London's Summer School, which gave many details, showed that an immense amount of reading was expected both at the school and in preparation for it.

There was a long letter from Miss Bamforth. Since no summer work is recognized anywhere for credit in British Universities, Miss Bamforth had some difficulty in appreciating our problem.

Students would be expected to have considerable background and they derive little benefit from the course unless they had undertaken a substantial amount of preliminary reading.

The size of the groups (usually between six and ten at the London School) is carefully adjusted so that they are small enough for the tutor to give individual attention to each student, yet large enough for there to be a wide range of experience so that discussion can be both fruitful and stimulating. All students taking the course for credit are required to produce at least one substantial piece of written work. They would, in addition, normally be expected to lead class discussion on subjects selected in consultation with the Tutor.

It was also clear from the material sent that the substantial piece of

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written work would be substantial indeed. The indications were that in some cases it might almost be classed as a minor thesis.

The reply of Professor Jones indicated that the British examinations "are never tied to a particular course given by a particular lecturer and do not necessarily coincide in time or subject with any single course." The examinations are comprehensive and the courses taken by a student at a British university in the regular session are guides for his own reading. This makes an evaluation difficult. He suggested that we might do our own examining. If we did so, however, we would be doing two things: allowing for the fact that British University Summer Schools do not give examinations, and giving credit for attendance and term work

The Executive Committee felt that one credit most definitely should be allowed for attendance at a British University Summer School, and in some instances a second might be granted. A second credit could be obtained only on the recommendation of the department concerned. To qualify for the second credit a student must be prepared to undergo an examination, to produce a paper written during the Summer School, for grading, or in some other way satisfy the department concerned.

If a student submitted to an examination for the second credit, a member of Council asked, could he pick the credit he wished to be examined for? The credits might be in two different departments and he would prefer one to the other. The Dean replied that the first credit would be selected in the normal manner and not by the student.

Was it right, another member asked, that a student should get in some cases two credits for "a little test." The Dean said that, in his opinion, what was asked would not be a little test and the essay noted by Miss Bamforth would be taken into consideration.

It was moved by Professor Ryan, seconded by Professor Betts, that credit for one course be given automatically for a British Universities Summer School. A second will be allowed for the same Summer School if the department concerned is willing to examine the student concerned for such a credit. The motion was carried.

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8. Executive Committee:

The Dean informed Council that the Executive Committee, which had now been functioning for two academic sessions, would require two new members each for a term of four years. According to the constitution of the Committee, as approved by Council, four members had been appointed initially, two for four years and two for two years, the names of the latter two to be selected by lot. Professors Brodie and Ryan had been selected by lot as the two retiring members.

New members for the Executive Committee, plus the alternate members holding office for the forthcoming year, by constitution were to be nominated by a committee set up by the Dean. Dean Smith announced that he had appointed Professor Keeping to be the chairman of this committee with Professor Collier as one of the members. These had agreed so to serve. There would be an additional member who had not yet been appointed.

The Dean went on to say that this would be an excellent opportunity for a review of the Executive Committee's work. Does it do the job that Council had hoped that it would do? He asked if Council would like to add such a consideration to Professor Keeping's Committee. Since there was no motion to this effect, Professor Keeping was left free to conduct such a review if he chose, but was not obliged to do so.

9. Other Business:

As a result of the impending move of Professor Buckmaster from the Edmonton campus to Calgary, the Department of Physics sought permission to offer a senior Physics course at Calgary next winter. The course would be one taught by Professor Buckmaster. It had not been considered by the Executive Committee.

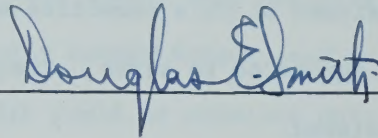
Physics 680. Radio Astronomy (2-0;2-0)
A Survey of the current literature on radio astronomy. A critical examination of experimental techniques. A discussion of the relationship of experimental data to various physical models, and also to the observations and theoretical work in the fields of classical astronomy, cosmic rays, physics, and cosmology.

It was moved by Professor Brodie, seconded by Professor Hanson, that the course be approved.

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There was some discussion on the number to be given to this course. The question was raised, however, in relation to other courses with lower numbers, such as 396. With such a number as the latter, are we telling the whole world that this is not a graduate course? The Dean replied that such a course, if used on a graduate program here, was just as likely to be accepted by another university as one numbered 680.

The meeting adjourned at 6.10 p. m.

A handwritten signature in blue ink, reading "Douglas E. Smith", is written over a horizontal line.

Dean

The 489th meeting of the Faculty of Arts and Science was held on Tuesday, May 10th, 1960, at 2 p. m., in Room 213, Administration Building. Present were Dean Smith, Chairman; Vice-President Cragg; Professors Baldwin, Ball, Blackley, Brodie, Bruce, Burwash, Collier, Cormack, Cree, Crosby, Davis, Duggan, Elder, Folinsbee, Fostvedt, Gainer, Glyde, Godfrey, Grayson-Smith, Hardy, Harris, Harries, Harrold, Hirabayashi, Jacka, James, Jones, Keeping, Kennedy, Kreisel, Laycock, Lowig, McIntyre, Mandel, Mardiros, May, Miles, Moore, Newbound, Nursall, Peacock, Pearce, Reinhold, Ryan, Scott, Starchuk, Stelck, von Richthofen, Watson, Whyte, Wilson, Wonders, Wyman; The Registrar, Mr. Cairns; and from Calgary, Professor Scargill.

The Dean welcomed Dr. Laycock as a new member who was unable to be present at the last meeting.

1. Minutes of Meeting of April 4th, 1960:

The reading of the minutes of the last meeting of Council was deferred until the fall meeting.

Dean Smith pointed out the error at the last meeting regarding membership of the Executive Committee, and it was moved by Professor Brodie, seconded by Professor Whyte that the Committee be reconstituted during the summer months, and meet in the fall.

Carried.

2. Report of the Committee on Honors:

It was moved by Professor Newbound, seconded by Professor Nursall that the report of the Committee on Honors be approved. The Committee recommends that the Governor General's Gold Medal be awarded to:

Richard Graham MILLER

The Committee recommends that the Lieutenant Governor's Gold Medal be awarded to:

Roger Malcolm EVANS

The Committee requests that the following students be recommended to General Faculty Council for the degrees shown:

BACHELOR OF ARTS:

With First Class Honors:

David Gomer FISH (Sociology & Psychology)

With Honors:

Alexander James BLACK (English)

Gerald Edward BRICE (Latin & English)

Reginald L. Campbell (Latin & French)
 Robert David HAWKINS (English)
 Patricia Agnes KLINCK (Modern Languages)
 Gloria Marie LEHNER (Modern Languages)
 Diane Kathleen MORGAN (Modern Languages)
 Claude Rudolph OWEN (Modern Languages)
 Glen Scott SHORTLIFFE (History)
 Adriana Natalie Ileana SLANICEANU (Modern Languages)
 Myrna Gail STEPHEN (Modern Languages)
 Lorette Kathleen YEUDALL (Psychology)

BACHELOR OF SCIENCE:

With First Class Honors:

Fred Yoshihiro EDAMURA (Chemistry)
 Richard Harvey ENNS (Physics)
 Calvin Ralph EVANS (Physics & Geology)
 Roger Malcolm EVANS (Zoology)
 Richard Graham MILLER (Physics)
 Robert Lister FORBES (Mathematics)
 George Maurice GAUCHER (Chemistry)
 Allan Rudolph STEIN (Chemistry)

With Honors:

Ursula Mary BIELENSTEIN (Mathematics)
 John Norman BRAGG (Geology)
 Heather Anne BROWN (Zoology)
 Michael George CAKLOS (Geology)
 James Frederick EASTON (Physics)
 Henry Russell GLYDE (Physics)
 Nadia HOCHACHKA (Psychology)
 Robert Kingsley JULL (Geology)
 John Charles KENYON (Mathematics)
 Victoria Margaret KRAWCIW (Biochemistry)
 Eugene William KULSKY (Geology)
 Robin Patricia McPHERSON (Chemistry)
 David William Alexander MOUNT (Physics)
 Charles QUON (Physics)
 Graham Arthur RENDALL (Geology)
 Melvin Roy STAUFFER (Geology)

The motion was carried.

Special Case:

Terry Brian COX (average 68.6%) permitted supplemental
 in Political Science 320 in Final year.
 (Honors Modern Languages)

3. Report of the Revisions Committee:

It was moved by Professor Kreisel, seconded by Professor Laycock that the Revisions Committee Report be accepted as submitted, with two additions to the list of B. Sc. graduates, namely John Walasko and Bernard Caner. Dean Smith

pointed out that Mr. Caner was a Special Student, which meant that Council would be admitting him to a Degree Program and granting him a degree at the same time. Mr. Walasko was in Honors, not permitted to continue; but his record was clear for a Pass degree.

(a) The Committee recommends that the Arts and Science Gold Medal in the B. A. General Course be awarded to:

John Edward Henry CONDER

And that the Arts and Science Gold Medal in the B. Sc. General Course be awarded to:

Drake HOCKING

(b) The Committee requests that the following students be recommended to the General Faculty Council for degrees as shown:

Recommended for the Degree of Bachelor of Arts:

Adams, Carolyn Jane	Evans, Christopher Dudley D.
Adell, Bernard Leo	Ferguson, Franklin P.
Alexander, Heather Ruth	Foisy, Rene P.
Allison, James Herbert	Frederick, Robert John
Anderson, Blake Llewellyn	Frey, John L.
Baker, Samuel Richards	Friesen, Edward Henry
Birenbaum, Shanie	Fuller, Kenneth Thomas J.
Blackbourne, Lorna Jean	George, Adrienne Leigh
Boyer, Donald John	Giebelhaus, Karen Pearce
Buob, Irmgard Bernice	Goodrich, Wendel Eugene
Butler, Derril Clive	Gowen, Robert Joseph
Buxton, Evelyn June	Hamilton, Patricia Ann
Cioni, Gary Gene	Henderson, George E.
Clark, Andrew Kinloch	Hendrickson, Joyce Ann
Clark, Charles Joseph	Hitchin, David Edward
Coams, Muriel Ann	Hustwick, John Anthony
Cole, John William Percy	Janzen, Hermann Wilhelm
Conder, John Edward Henry	Johnston, Meredith Ann
(First Class General Standing)	Jones, Lionel Locksley
Cook, Edwin Samuel	Karoles, Ronald David
Craig, Jean Adele	Kelly, Robert Joseph
Dean, Earlyn Eva	Kenway, Donna Joan
Deeprose, Donna Marie	Kleiman, Ann Marta
Downton, William Herbert	Koshel, Harry
Draper, Doreen Mary	Laminman, Shirley Anne
Edmunds, George David	Lamont, Robert Norris
Edwards, Clifford Gordon	Langevin, Roger Irene
Effa, Alvin Ewald	Larsen, Melvin Peter
Elford, Edward Locke	Liviero, Maria Annamelda, B. Ed.
Elliot, James	Lloyd, George Mervyn
Erickson, Ronald Marvin	Lundrigan, Robert Arthur
Estrin, Esther Sharon	McKay, Betty Arlene

McKay, William Henry	Searle, David Harry
McLean, Murdith Ronald	Shandro, Margaret Rose
McNamee, William Fraser	Smerek, Philip John
Makepeace, Barbara June	Smith, Alan Charles Hayward
Malchow, David George	Snow, Jean Diane
Ming, James Timothy Mah	Steiner, Darlene Ruth
Newhouse, Esther Rose	Stillings, Beverley Anne
Nieboer, Gerrit John	Stobie, Robert Thomas James
Noak, Geraldine Ruth	Talbot, Charles Kenneth
Notley, Walter Grant	Teare, Cameron Clucas
Nuttall, Leslie	Thomas, Norah Emaline
Oke, Donald Wesley	Thomson, David Jon
Ouellette, Grace Lorraine	Todd, Patrick Albert
Pearlman, Clarice	Toombs, Patricia Olcen
Peterson, Karl Oliver	von Stackelberg, Hans Ernest
Phillips, William James Allan	Waight, Lois Gwenda
Pieback, Christine Joanna	Wensel, Joan Pauline
Prothro, Irene	Wigmore, Edward John
Regier, Abram Peter	Williams, Richard Holden
Rigby, William Garbert	Wilson, Betty Mary Priestley
Sachaschik, Steve	Wilson, Robert George
Sanders, Douglas Esmond	Wright, Francis Keith
Sapiro, Cyril Edwin	Yousefowich, Gail Merle
Scharf, Brian Howard	(Name changed to Kernan)

Recommended for the Degree of Bachelor of Science:

Abbot, Roy John	Gagnon, Roger
Aleksiuk, Anne	Hardy, Albert Edward
Allen, Terrence Glenn	Hasegawa, Henry
Allen, Vale Roberta (Shawne)	(First Class General Standing)
Barr, James Alexander	Hocking, Drake
Bayduza, Jeanette Dorothy	(First Class General Standing)
Bent, Dale Harold	Hui, Ho-Tung
Berreth, Agnes Nova	Jackson, Reginald Dale
Blachut, Robert Bernard P.	Kay, Christine Susan
Boutin, Lucille Maria	Kirdeikis, Albert Anthony
Brearley, Charles Thomas	Knowles, Nora Agnes
Breitkreutz, Herbert Enoch	Lewis, Eileen Mabel
Brillon, Kenneth Anthony	Lightfoot, Leroy Boston, B. Ed.
Brown, Alice Louise	Lindbergh, Vernell
Brown, Duncan Robert	Lisevick, Frederick
Byers, George Richard	Lonvik, Helen Oline
Caner, Bernard	Lorincz, Louis
Clarke, Marjorie Alice	Maguire, Thomas Owens
Coldham, Peter Victor	McLaren, Robert Francis
Craig, Gerald P.	McLean, Robert Douglas
Cumming, Wilfred Samuel	Maberley, Al
Davidson, Christopher	Machacek, Vince
den Hertog, Willem	Markle, Valerie Rita Frances
Desharnais, Rochelle Anne	Marliss, Garry Seymour
Dibble, Charles James, B. Ed.	Monner, Kenneth Michael
Dyer, William Robinson	Mundy, Keith Reginald Dale
Elaschuk, Rita Victoria	Nichols, Jack Loran
Erickson, LeRoy Martin	Nielsen, Louise Laura
Ferguson, Roy Douglas	Ostafichuk, Mike
Freeman, Gladys Diane	Pawson, Geoffrey Leslie

Payne, Leslie Anne
 Perrino, Frank Albert
 Pirzek, Lloyd David
 Ponich, Paul
 Purcell, Gerald Edward
 Ramsankar, Solomon Wilfred
 Robertson, Gail Agnes
 Robertson, Kenneth Edward
 Savich, Eleanor Ann
 Scott, Alvin Glen
 Shevin, Evan
 Simm, Nurmi
 Skulsky, Constance Theresa
 Smid, Harm

Spencer, Campbell Ririe
 Stanford, Nunham Glenn
 Stangret, Lubow Maria
 Stepchuk, Lorraine Gail
 Turtá, Patricia Maria
 Tymko, Joseph Lawrence
 Waddell, Warren David
 Walasko, John
 Wheeler, Kenneth Philip
 Wilson, Arthur Frederick
 Woodman, John Campbell
 Wright, Wayne Jefferson
 Young, Murray Ronald
 Zieber, Eric Herbert

Special cases:

1. Barbara Arnold and Lois Dean:

The cases of Mrs. Arnold and Miss Dean, being identical, were dealt with together. Both are in the Music pattern, and both have attained good marks except for an inability to harmonize, as exemplified by their marks in Music 350. Each received 46F. Since Professor Eaton had no objection to changing the "F" to "S", and thus grant supplemental privileges, and since he indicated that the course is difficult and in his opinion should not be compulsory,

It was Moved by Professor Kreisel, seconded by Professor Laycock, that in each case the mark be raised to 50. The motion was carried.

2. Marie Alice Irene Odette Charron:

This student is in the Psychology pattern and has a good record, but unfortunately she failed Mathematics 305 with a mark of 38, and also failed the supplemental. She is a trained nurse going into child psychology work, and she has been granted a scholarship by the French Government to that end. It was felt that it would work a hardship on her to withhold the degree, and it was

Moved by Professor Kreisel, seconded by Professor Collier that Miss Charron be given the degree notwithstanding the failure. Carried.

3. Arthur Stinner:

Examination of Mr. Stinner's case revealed that he was seeking the B. A. in Modern Languages following upon his B. Sc. in Physics, for which he needed nine courses and a total of five second class marks. He has taken five courses in each of two years, but in each year has failed one course. He is therefore short one course, although he has the requisite number of seconds.

It was moved by Professor Kreisel, seconded BY Professor Jacka, that he be granted the degree notwithstanding the shortage of one course. The motion was defeated, as it was felt that failure stemmed from lack of application to his studies, and in any event he could write a supplemental examination.

4. Barbara Selter:

Miss Selter missed her February tests, apparently as a result of illness, although no Medical Certificate was obtained. After considerable discussion it was decided that she be treated as if medically excused.

Professor Kreisel moved, seconded by Professor Pearce that she be treated as medically excused and her degree granted. Carried.

Dean Smith advised that he had intervened in this case, and it was upon his insistence that it had been brought before Council.

The motion approving the Report of the Revisions Committee was approved.
Students Not Qualifying for the B. A. or the B. Sc:

It was moved by Professor Kreisel, seconded by Professor Jacka, that the following report of the Revisions Committee on students not qualifying for their degrees, be approved:

The Following students failed to meet the requirements for the Bachelor of Arts Degree, for the reasons shown in each case:

Barr, Dennis James Marshall - Needs two seconds.
 Becher, Linus Henry - Needs one second
 Bell, Craig Leslie - Needs one course, two seconds
 Blackmore, Luanna Marie, - Needs one course
 Behm, Lorne John - Needs one course
 Burns, Thomas Peter - Needs one second
 Chrumka, Albert George - Needs two seconds
 Clarke, William Gray - Needs two seconds
 Cousineau, Douglas Freeman - Needs one course
 Davison, Jacqueline Mary - Needs one second
 Dixon, Gerald Richard - Needs one course, two seconds
 Dooling, Peter John - Needs one course
 Douglass, William Donald - Category IV
 German, Carol Eleanor Mary - Category IV
 Gilchrist, Gayle Marlene - Needs one course, four seconds
 Hamaluk, Orest John - Needs two seconds
 Hart, John Edward - Needs two seconds
 Higa, Samuel - Needs one second
 Humenuk, Stanley - Needs one second.
 Hutchison, Drina Jean - Needs four courses, four seconds
 Janowsky, Raymond Dale - Needs one second
 Harvis, Robert Earl - Needs one course
 Hiry, Leonard Louis - Needs two seconds
 Johnson, Alan Boyd - Needs one second
 Kirsch, Kenneth Robert - Needs three seconds, one course
 Lant, Ronald Alfred - Needs one course
 Meraw, Thomas Edward - Needs three seconds
 Offet, Gerald Paul - Needs one course
 Olson, Norman Donald - Needs one course
 Pilot, Glenn Lance - Needs two seconds
 Pollard, Thomas Neville - Needs one second
 Price, Ralph Hoyt - Needs one course

Semenchuk, Peter Paul - Needs one course
Smith, Charlotte Mae - Needs one course
Tannas, Donald Alfred - Needs one second
Walker, Russel James - Needs two seconds
Wintermute, William Melbourne - Needs one course

The following students failed to meet the requirements for the Bachelor of Science Degree for the reasons shown in each case:

Achtem, Donald William Paul - Lacks Geology 350 and four seconds.
Baker, Gwendolyn Martin - Lacks pass in Physics 340.
Bentley, Donald James - Lacks two seconds
Campbell, George Archibald - Lacks one second
Chmilar, Tom Emil - Lacks one second
Craig, Gerald Prescott - Lacks one course
Curr, Robert Lee - Lacks three seconds
Ferbey, John William, - Special Category II
Ferguson, Larry Willis - Lacks one second
Harrington, Gerald Gladwyn - Lacks pass in Chemistry 370 and four seconds
Hockett, Darrell Clinton - Lacks two seconds and one course
Johanson, Frances Dolores - Failed Physics 340 ; needs four seconds
Joyce, John Garry - Lacks one second
Ketcheson, John Ernest - Lacks four seconds
Kitzul, Irvin - Lacks one course and four seconds, Special Category IV
Kuchar, Russell - Lacks two seconds
Leskiw, Kateryna - Lacks one second
Loehde, Franklin Caesar John Theodore - Lacks Mathematics 420
MacKillop, Donald Lawrence - Lacks two seconds
McNabb, Ralph Gilbert - Lacks one course
Mjelve, John Oddvar - Lacks one course
Nering, Bernard Ludwig - Lacks two courses and four seconds
Paetkau, Paul - Lacks one course
Probert, Elwyn Raymond - Lacks five seconds
Pyrch, Orest Samuel - Lacks two seconds
Rogalski, Walter - Lacks one second
Samiroden, Walter Donald - Lacks one second
Schmelz, Rev. Josef Franz P. - Lacks one course and four seconds
Simpson, Leonard G. - Lacks pass in Physics 340
Skriptisky, Marvin Kenneth - Lacks one second (did not write his supplemental)
Van Kessel, Antonius Leonardus G. J. - Lacks pass in Mathematics 320
Warters, Roderick Harry - Lacks one second
Zaturecky, John William - Lacks three and a half seconds

The motion was approved.

4. Report of the School of Commerce:

It was moved by Dr. Harries, seconded by Professor Fostvedt, that the following report of the School of Commerce be approved:

The School of Commerce requests that the following students be recommended to General Faculty Council for the degree of Bachelor of Commerce:

Morley David ABOUSAFFY
 Gerald Andrew BERKHOLD
 Edward Robert BLASKEN
 Beverley Gene COTTRELL
 JRobert John ELLIS
 Michael FUNDUK
 Matthew Hickey GARLOUGH
 Donald Robert GLOVER
 Ernest Cecil HAMBROOK
 Kenneth Brown INNES
 William Allen JOHNSTON
 Edward Ernest KEEPING
 Donald Glen KROSS
 Victor KRUPA
 George Stewart LANE
 Andrew Ronald LAW
 Margaret Anne LYSENG
 Isabella Sophie McMILLAN
 George Henry MARTIN
 John Mah MING
 Edward Terence MOWBREY
 Robert James MOWBREY
 John Robert Christie O'HARA
 Jerald Dee PALMER
 Robert Edward POTTINGER
 Crosby Harold QUILLIAM
 Harold Owen RICKER
 Gordon Douglas ROBERTS
 William Keith ROBERTSON
 Terrence Alvon ROMANS
 Alvin Clifford STELTER
 John Wallace WEAR
 Leonard MacGregor WILLIAMSON

The following students have been found deficient in the requirements for graduation:

Kerry Cameron Henderson - Lacks one subject, two seconds
 Robert McBride Pogue - Lacks one second
 Norman Gerrit Riezebos, - Lacks one second
 Morley George Stanway - Lacks one subject
 William Charles Stephen - Lacks five seconds
 William Hugh Stewart - Lacks three seconds

The motion was carried.

5. Report of the School of Household Economics:

It was moved by Miss McIntyre, seconded By Miss Duggan, that the following report of the School of Household Economics be approved:

The School of Household Economics recommends that the names of the following students be submitted to General Faculty Council for the Degree of Bachelor of Science in Household Economics:

Mary-Wynne ASHFORD
 Elaine Deloris CLARK
 Joan Louise FREYFONS
 Ann Christina GOUTHRO

Eugenia Stephanía SOKOLUK
 Maryetta THORNTON
 Carol Anne WATSON

The motion was carried.

6. Appointment of Revisions Committee for Calgary:

Dean Smith stated that he had approached Professor Scargill about acting as Chairman for the Calgary Revisions Committee, and Professors Prince and Self to serve as members of the Committee. Moved by Dr. Blackley, seconded by Professor Watson, that the aforementioned, with Professor Scargill as Chairman, constitute the Revisions Committee for Calgary. Carried.

7. Appointment to Executive Committee:

Dean Smith referred to his appointment of a nominating Committee to present candidates for the Executive Committee, replacing Professors Brodie and Ryan. All having been approached and having agreed to serve, Professor Keeping nominated Professors Elder and Wonders, with Professors Moore and Harris as alternates. The motion was seconded by Professor Collier, and carried.

8. Petitions:

Miss Diane Prowse, intending to be married shortly and to settle in Montreal, asked that she be permitted to complete her final year at McGill University. Dr. Blackley informed Council that he had explained to Miss Prowse that she must consult with the Department of Psychology here, and it was her responsibility to do so. Professor Keeping pointed out that Council could only recommend this petition to General Faculty Council, as the rule is theirs. It was

Moved by Dr. Blackley, seconded by Professor Kreisel, that the petition of Miss Prowse be recommended to General Faculty Council for favorable consideration. Carried.

9. Summer Session Revisions Committee:

It was moved by Dr. Blackley, seconded by Professor Kreisel that authority be given to the Dean to set up a Summer Session Revisions Committee to deal with the results of the 1960 Summer Session; that he be given power to deal with those students whose records are incomplete, and with non-graduating students (including the use of such powers as may be delegated to this Council by General Faculty Council.) Carried.

10. Other Business:

(a) Designation of High-Ranking Students:

Dean Smith explained that the Honors Committee in Spring Meeting resolved

that the designation, "First Class Honors" be retained. The Dean asked that, if Council concurs, the matter be recommended to General Faculty Council. It was moved by Professor Keeping, seconded by Professor Grayson-Smith that the designation "First Class Honors" be retained and this designation recommended to General Faculty Council. Carried.

(b) The B. Sc. in Household Economics after the B. Ed:

The School of Household Economics recommended that students who have qualified for the degree of Bachelor of Education may proceed to the degree of Bachelor of Science in Household Economics if they have met the matriculation requirements of the School of Household Economics and have completed thirteen courses in Arts and Science and Household Economics. They would be required to complete the B. Sc. program with a minimum of six senior courses, and to obtain second class standing in at least four of these courses.

It was moved by Miss McIntyre, seconded by Miss Duggan, that this recommendation be approved for the consideration of General Faculty Council. Carried.

Dr. Blackley asked whether Household Economics courses marked in the Calendar with an asterisk as being for Education students, were to be included in the thirteen courses designated, to which Miss McIntyre replied they were to be so included. It was pointed out that in the case of some half-courses, some "juggling" might be necessary to attain the desired total.

(c) Student Employment:

Professor Wonders, a member of the Committee, expressed grave concern of the Committee with the fate of the three-year student who obtains his B. Sc. degree, as high as two or three out of four finding placement difficult as compared to only one out of four obtaining the B. A. degree. It was felt that the matter of specialization was giving rise to the trouble, as B. Sc. students seemed to regard themselves as specialists. Vice-President Cragg likewise expressed concern and indeed shock at the number of students graduating in the three and four year programs, in which time in many cases he felt they could not

achieve adequate training for their desired goals. He felt that the Faculty members could greatly assist by guiding students so they would not be prone to leave University with what may be in some cases inadequate training. Professor Keeping pointed out that indeed all were not capable enough to enter an Honors program; nevertheless Professor Cragg felt that even an Honors failure is often better fitted to cope after graduation.

(d) Curriculum Committee:

The Dean called upon Professor Hardy for an informal report on the progress of the Curriculum Committee. Dr. Hardy explained that the committee report was not yet in final form, and it was decided to leave this matter over until fall. Professor Hardy did report progress, however, advising that the Committee was at the present moment of opinion to recommend a four year course in General Arts and General Science, and a program which would seem to provide on the one hand a general education for those who wish it, with concentration in at least two areas, and on the other hand would provide professional training in four years. Professor Hardy was careful to explain that this proposed program was not intended to, nor would it supplant the Honors program - precise terminology had not yet been determined by the Committee.

Professor Wonders observed that there appeared to be no difficulty in placing three year graduates in Mathematics. Professor Grayson-Smith trusted that Professor Hardy's "Progressive Training" would not tend to supplant the Honors course, to which Professor Hardy replied that they were indeed separate and distinct and after very careful deliberation by the Committee.

(e) The Dean pointed out that Council was very shortly to lose the School of Commerce, which is being replaced by the new Faculty of Commerce. At the same time it was with regret that "good-bye" must be said to Miss McIntyre on her retirement.

(f) The Computer Program Course:

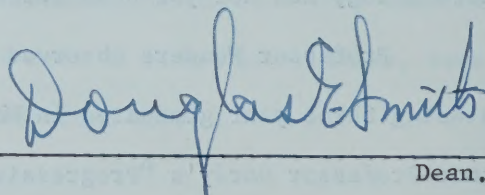
The Registrar raised this question, asking the guidance of Council on the question as to whether the achievement of these students is to be recorded.

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Mr. Cairns had discussed the matter with the President, who felt that there should be some indication of achievement before such was recorded on the student's file. Professor Scott spoke briefly, saying that in taking the course students prepared material which was, in some cases, still on record and which reflected the achievement of the particular student. Professor Keeping felt that such was an achievement worthy of record on the student's transcript. Some wondered whether it should be termed a project rather than a course. Professor Scott indicated that this should be brought before General Faculty Council. Meanwhile, could not it be approved in principle by this Council, formal voting to be ascertained later? It was accordingly,

Moved by Professor Scott, seconded by Professor Keeping, that this Faculty is in favor of endorsing a student's record card reflecting a twenty-hour qualification in computing technique, and that this action be retroactive to this year's group, but that no credits be given. The motion was carried, with the understanding that the matter was one finally for determination by General Faculty Council.

The meeting adjourned at 3.45 p. m.


Dean.

The 490th meeting of the Council of the Faculty of Arts and Science was held on Monday, October 3rd, 1960 at 4.30 p. m., in Room 213 Administration Building.

Present were Dean Smith, Chairman; Professors Baldwin, Bhatia, Blackley, Brodie, Bruce, Burwash, Charlesworth, Cree, Crighton, Davis, Eaton, Eccles, Elder, Empey, Farnham, Folinsbee, Garland, Gibb, Goodale, Grayson-Smith, Greene, Hanson, Hardy, Harris, Harrold, Hirabayashi, Hough, Howarth, Jacka, James, Jones, Keeping, Kennedy, Kreisel, Laycock, Lorch, Lerbekmo, MacArthur, Mardiros, May, Moser, Nelson, Newbound, Nursall, Penelhum, Phibbs, Reinhold, Robinson, Royce, Sharp, Spencer, Thomas, Trainor, von Richthofen, Wallace, Whitney, Whyte, Wilson, Wonders, Woods; the Registrar, Mr. Cairns; and from Calgary, Principal Taylor, Professors Challice, Gibb, Guy, Hartland-Rowe, Heymann, Hyne, Prince, Scargill, Schonfield, Self, Winspear, and the Associate Registrar, Mr. Hawes.

The Dean welcomed new members: Dr. Taylor, Principal of the University of Alberta, Calgary, Professors Schonfield, Royce, Howarth, Sharp, and Hyne, of this Faculty, and Professor MacArthur from Education.

1. Minutes of Meeting of May 10th, 1960:

The Secretary read a summary of the minutes of the meeting of May 10th, 1960, and it was moved by Professor Laycock, seconded by Professor Keeping that the minutes be adopted as summarized. Carried.

The Chairman stated that the reading of the minutes of the meeting of April 4th, 1960 had been deferred to this meeting. It was moved by Professor Folinsbee, seconded by Professor Brodie that the minutes of the meeting of April 4th, 1960, be adopted as circulated. Carried.

2. Report of 1960 Summer Session Revisions Committee:

In the absence of Professor Gainer, Professor Whitney moved, and Professor Blackley seconded:

That the following students in the 1960 Summer Session be recommended to General Faculty Council for the Degree of Bachelor of Arts:

Barnes, William Rodney
Dawson, Leo Shirey
Dowhan, Dorothy L.
Elkin, Lorne
Ellehill, Regnar
Ellenwood, William Ray
Freeman, Winifred Olive Lilian
Haluschak, Joseph Stanley
Hart, Jack Edward
Hutton, Charles Lorne Archie

Jevne, Robert Patrick
Leavitt, Jean Marie
Le Febvre, Sylvain David
McCleary, Charles Harold
Murray, Kenneth Calvin
Naundorf, Ronald Rudolph
O'Dwyer, Alice (First Class Standing)
Olson, Norman Donald
Paetkau, John
Parker-Nordon, Edna Beatrice

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Price, Ralph Hoyt
 Semenchuk, Peter Paul
 Shinkaruk, Dmytro Nick
 Sundal, Harlan Ingwall

Sister Mary Annella (Mary Gizella Pek)
 (First Class Standing)
 Wehrhahn, Rita Gwendolyne
 Weisler, Marvin Nelson

And that the following be recommended to General Faculty Council for the degree of Bachelor of Science:

Engelhardt, John
 Olynyk, John Nicholas
 Parker, Clyde Wilson
 Royer, Aurell Paul
 Stacey, Steven

The motion was carried.

Special Case - MacKeen, James Henry George:

Professor Blackley introduced this case, stating that this student failed one of two courses taken at Summer School with a mark of 44, but passed the other with a second-class mark. The Chairman added that at the end of the 1959 term Mr. MacKeen required one second-class mark and that he proposed to take one course at Summer School to qualify. He was told he must take two courses, and having failed one the Chairman of the Revisions Committee, Professor Gainer, wished a ruling from this Council.

It was moved by Professor Newbound, seconded by Professor Self that Mr. MacKeen be recommended for his degree and his name added to the list. Carried.

3. Report of the Revisions Committee:

It was moved by Professor Kreisel, seconded by Professor Laycock that the following, as a result of the September supplemental examinations, be recommended for General Faculty Council for the degree of Bachelor of Arts:

Cohen, Markus
 Cousineau, Douglas Freeman
 Ferguson, Jacqueline Gail
 Griffiths, Lois Jean
 Higa, Samuel
 Humenuk, Stanley
 Jarvis, Robert Earl
 Jiry, Leonard Louis
 Offet, Gerald Paul
 Pollard, Thomas Neville
 Rogers, William Howard
 Tannas, Donald Alfred
 Young, Robert Andrew McIntyre

That the following student in Honors be recommended for the pass degree of Bachelor of Arts, at her own request:

Fairbairn, Joyce Ella Margaret

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And that the following be recommended to General Faculty Council for the degree of Bachelor of Science:

Bentley, Donald James	Paetkau, Paul
Harvey, John Harold	Potter, Arthur Ronald
Henik, Albert James	Rogalski, Walter
Johanson, Frances Dolores Catherine	Semkuley, Myron Harry
Joyce, John Garry	Simpson, Leonard Gordon
Kashuba, Gerald	Van Kessel,
Leskiw, Katie	Antonius Leonardus Gerardus Johannes
Mabbott, James Douglas	Willans, David Joseph.

That the following students in Honors be recommended for the pass degree of Bachelor of Science, at their own request:

Andrews, Jean Marie
Clements, Dale Robert
Epton, Richard
Kindrachuk, John

The report of the Revisions Committee was approved.

4. Report of the School of Household Economics:

It was moved by Professor Empey, seconded by Professor Spencer, that the following students be recommended to General Faculty Council for the degree of Bachelor of Science in Household Economics, as a result of the September supplemental examinations:

de Valois, Marguerite Joanne
Dolling, Jeanette Emily
Miller, Bernice Georgina
Semotiuk, Nataalka

The report was approved.

5. Special Motion on Degrees obtained by Special Supplemental Examinations:

At the request of the Dean, it was moved by Professor Folinsbee, seconded by Professor Self, that the Revisions Committee be empowered to recommend to General Faculty Council on students qualifying for their degrees as a result of special supplemental examinations, or qualifying in some unusual circumstance. The motion was carried.

6. Calendar Changes:

Council was asked to give retroactive approval to the following course in Biochemistry in which students had been enrolled in anticipation of such approval:

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(a) New Course:Biochemistry 301

(1-0;1-0)

All Members of the Staff.

A course for Honors students designed to extend and supplement the lectures in Biochemistry 300, and to be taken jointly with Biochemistry 300. Topics discussed include: photosynthesis, comparative aspects of carbohydrate metabolism, specialized subjects in lipid metabolism, chemical basis of muscular contraction and blood clotting, isotope tracers in biochemistry, structure of protein hormones and their relation to biological activity.

It was moved by Professor Spencer, seconded by Professor Nursall that the foregoing course be approved. The motion was carried.

(b) New Course:Physics 616 - Low Temperature Physics.

(2-0;2-0)

This is a new graduate course in Physics in which there are five or six graduate students enrolled this year. As the course content will vary considerably from year to year, it is not proposed to cite a calendar description other than as above.

Approval was moved by Professor Grayson-Smith, seconded by Professor Newbound, and carried.

(c) The Dean outlined a proposal to increase laboratory time in Physics 240 from 2 to 3 hours per week.

Professor Newbound moved, seconded by Professor Garland, that the course descriptions of Physics 240 and 242 be amended to read (3-3;3-3) in lieu of the present (3-2;3-2). Dean Smith pointed out that the timetable permitted this change this year. The motion was carried.

(d) It was moved by Professor Reinhold, seconded by Professor Scargill that the following two courses in Linguistics be offered to replace in part four one-half courses previously offered, and that a change in description of Linguistics 450 be approved.

Linguistics 410 - General Phonetics

(3-0;3-0)

A study of the speech organs and of speech production. Types of speech sounds. Phonetic analysis and extensive transcription practice using several Indo-European languages, as well as Eskimo and American Indian languages. Introduction to phonemic theory and analysis.

(Not open to students with credit in Linguistics 410 (a).

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Linguistics 430 - Contrastive Linguistics (3-0;3-0)
An analytical study of the French and English languages, comparing and contrasting their linguistic structure, i.e. phonetics, phonemics, morphology, syntactical patterns and lexicology. Practical work in oral recognition and phonetic transcription.

Linguistics 450 (57) - Eskimo Language and Culture (5-0;5-0)
A descriptive study of the sounds and structure of Eskimo. Intensive drill of basic patterns. The course aims at giving an active practical command of the language through working with a native speaker and recorded materials. Introduction to Eskimo culture.

7. Special Cases and Petitions:

Wilson, Terence W: This student failed his final examination in Mathematics 440, and the supplemental as well. Since he was in the third year of an Honors Mathematics program, he was not to be permitted to continue in Honors. The Revisions Committee recommends that he be required to complete one A or B Division course.

Nichols, Myrna Eileen: Miss Nichols also failed her final examination in Mathematics 440, and did not write a supplemental examination. She has signified her wish to withdraw from her Honors program and obtain the B. Sc. degree in the General Science pattern. The Revisions Committee recommends that she be required to complete one Special A or B Division course.

It was moved by Professor Kreisel, seconded by Professor Jacka that the recommendations of the Revisions Committee in these two cases be approved. Carried.

Rowe, Miss Muriel Edna: Miss Rowe seeks a B. A. degree after her B. Ed. She enrolled for and completed Geography 302 under the impression that it was a Science course, but has since discovered her error. Of three required Science courses, she has credit in two - Botany and Mathematics. She has also corrected a matriculation deficiency in Physics.

It was moved by Professor Blackley, seconded by Professor Brodie that Geography 302 be accepted in lieu of a third Science course. Carried.

McLeod, John Kenneth: This student, who obtained his Law degree at Saskatchewan, obtained there in addition several Arts credits. He now wishes to obtain his B. A. by using a University of Saskatchewan credit in Political Science 217.

It was moved by Professor Hanson, seconded by Professor von Richthofen, that he be approved for his degree provided we receive confirmation from the University of Saskatchewan that he has in fact credit from that institution in Political Science 217. The motion was carried.

8. Substitution of Music Appreciation for Physical Education in the Faculty of Arts and Science at Calgary:

The Chairman called upon Professor Scargill, who outlined the lack of

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facilities in Calgary for Physical Education and suggested one hour per week in Music Appreciation be made compulsory in lieu thereof. It was moved by Professor Scargill, seconded by Professor Guy, that Music Appreciation be adopted as a compulsory attendance course in Calgary in this Faculty in lieu of Physical Education.

Moved by Professor Grayson-Smith, seconded by Professor Schonfield, that the motion be amended to read, "And that students so qualifying in Calgary be deemed to have completed the requirement for Physical Education on the Edmonton campus."

The amendment, and the motion as amended, were successively carried.

The Chairman observed that the substitution has been approved by General Faculty Council subject to the approval of this Council; and further that it was understood that this arrangement was to continue while the facilities for Physical Education are not available in Calgary. Dr. Taylor said that he hoped that such facilities would be available next term.

9. Consolidated Examinations in January:

Professor Blackley pointed out that the University rink might not be available, and without the rink consolidated examinations were not feasible. Mr. Cairns affirmed that the rink premises were required for such purpose. It was moved by Professor Penelhum, seconded by Professor Grayson-Smith that space be made available for the holding of consolidated examinations. The motion was carried unanimously.

10. Other Business:

Dr. Taylor extended two invitations to members of Council - to attend their Faculty Council meetings in Calgary; and a warm invitation to members to Fall Convocation on October 29th, 1960.

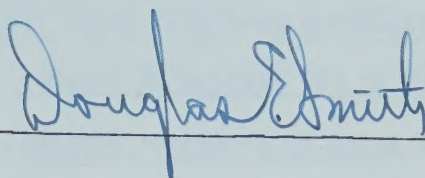
The Chairman brought to the attention of members the recurrent request from the Faculty of Education that students be released promptly from Arts and Science classes so that they might negotiate the not inconsiderable distance to the Education Building in time for following classes. He further reminded members that no Calendar changes would be accepted after the January meeting of General Faculty Council, and that by November 12th such changes must be received in the

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Dean's office if we are to avoid a January meeting of this Council.

The Chairman briefly outlined several scholarships available from the Canada Council, the Ford Foundation, the Defence Research Board, the Commonwealth University Exchange Scheme and the Jamaica Government.

The meeting adjourned at 6.30 p. m.

A handwritten signature in blue ink, reading "Douglas E. Smith", written over a horizontal line.

Dean

The 491st meeting of the Council of the Faculty of Arts and Science was held on Monday, November 7th, 1960, at 4.30 p. m. in Room 213, Administration Building

Present were Dean Smith, Chairman; Professors Ball, Bhatia, Blackley, Brodie Brown, Bruce, Burwash, Cook, Cree, Crighton, Crosby, Davis, Davy, Eaton, Eccles, Empey Farnham, Folinsbee, Fostvedt, Godfrey, Grayson-Smith, Greene, Hanson, Hardy, Harrold, Hirabayashi, Hough, Howarth, Jacka, James, Jones, Keeping, Kennedy, Kreisel, Laycock, Lerbekmo, Lowig, MacArthur, McKenzie, Mandel, Mardiros, May, Miles, Moore, Newbound, Nursall, Penelhum, Phibbs, Pilkington, Reinhold, Royce, Samuel, Schiff, Scott, Sharp, Spencer, Starchuk, Thomas, von Richthofen, Walker, Wallace, Whyte, Wilson, Wonders; and Mr. Cairns, Registrar.

The Dean welcomed new members: Professor Walker from the Faculty of Education; and Professor Pilkington, who will visit the meetings of this Council as an observer, as our Assistant Dean will visit the meetings of the Education Council.

1. Minutes of the Meeting of October 3rd, 1960:

It was moved by Professor Kreisel, seconded by Professor Newbound that the minutes of the meeting of October 3rd, 1960, be adopted as circulated. Carried.

2. Business Arising Out of the Minutes:

(1) Special Case - McLeod, John Kenneth:

The Chairman referred to the condition imposed upon the granting of this student's degree, and advised Council that Mr. McLeod's credit from the University of Saskatchewan in Political Science 217 was confirmed, and he was therefore recommended to General Faculty Council for the degree.

(2) Addenda to the Revisions Committee Report:

The Chairman explained that both as a result of special supplemental examinations and the omission of certain students in the combined Arts and Law course, the following had been added to the lists for the degrees shown:

Bachelor of Arts:

Behm, Lorne John
Boyer, Donald John
Coutts, James Allan
Davison, Jacqueline Mary
Janowsky, Raymond Dale
Purdy, Andrew Allan
Stolte, Cornelis
Swist, Ronald Cyril Andrew
Wintermute, William Melbourne

Bachelor of Science:

Hofsteenge, Peter
Warters, Roderick Harry

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3. Report of Executive Committee:

(1) Calendar Changes:

New Courses:

Music 311 - Band and Orchestra

(10-10)

Practical instruction in band instruments and in matters relating to the formation, direction and administration of beginning band. This is an intensive course intended only for persons already competent in theoretical and practical music.

Instrumental studies will include tone production, fingering, and the embouchure of all brass and woodwind instruments. A survey of percussion instruments and their performance techniques. Care of band instruments. Conducting. The special study of clarinet, trumpet, trombone and rudimentary drumming.

(To be offered in 1961 at the Edmonton Summer Session.)

The History Department requested the following two new courses, retroactive to the beginning of this term:

History 541 - Problems in the history of the United States.

(The History Department has a number of students presently taking History 540, whose title is, "The Westward expansion of the United States." The proposed new course seems better suited to the needs of these students, who will change their registration from History 540 to History 541 if this request is approved.)

The History Department requests that History 500 (Special subject,) be changed to:

History 500 - Special subject, third year Honors History;
History 501 - Special subject, fourth year Honors History.

The special subject is taken over two years, and it is felt wise to break this subject down to facilitate the assignment of marks.

The Chairman stated that the new course Music 311 is introduced with the hope of meeting the present shortage of bandmasters in the Province.

It was explained that History 500 is being assigned a separate designation for each of the two years it comprises, so that the assignment of marks may be effected each year.

It was moved by Professor Wonders, seconded by Professor Elder, that these courses be approved and that this approval be retroactive to the first of

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the present term in the case of the History courses.

English 387 and English 389 - The Summer School of Linguistics:

The Chairman stated that English 387 (Linguistic Geography) and English 389 (Modern English Grammar) have, in the past, been approved for the Summer School of Linguistics but only for one year at a time. The Advisory Committee to the School has recommended that these courses be offered again in 1961, and has also recommended that the School be approved for the summers of 1961 and 1962.

It was moved by Professor Jones, seconded by Professor Elder that English 387 and English 389, with present course description and content be approved for the 1961 and 1962 sessions of the Summer School of Linguistics. Carried.

(2) Petitions:

Kathleen Lynne Newcombe: Miss Newcombe, a student in the third year of the B. Mus. program, wishes to proceed to graduate work at the Eastman School of Music in Rochester, New York. For admission, she will have to display great skill and a wide repertory in piano and will be competing with students who have had four years of university preparation in the piano. She asked that she be excused from Mathematics 250 for her preparation and that, for this course be substituted one of two courses (Sociology 202 and Classics 357) she took as extra courses in the Summer Session of 1960. Miss Newcombe is an excellent student and her petition was supported by letters from Professor Stangeland and Professor Eaton.

The Executive Committee refused the request. When Miss Newcombe was allowed to take the Summer School courses, she was told in the plainest terms possible that under no conditions would she be allowed to use the 1960 Summer School courses on her B. Mus. degree. Dean Coutts, of the Faculty of Education, did say that she could use them on a B. Ed. after a B. Mus. The Committee felt that it was hardly responsible for Miss Newcombe's change of plans; that her position had been made very clear to her.

Helen Elizabeth Moogk: Miss Moogk is attempting a B. A. in the Sociology pattern, after a B. Sc. in Nursing from McGill University. On this she has taken two courses (Psychology 340 and Sociology 460) and requires four more, since she was allowed credit on her B. A. for three courses taken as a student in the Faculty of Education. Miss Moogk's remaining requirements are three science courses and one arts course. She requested that some reduction be made in the science requirement since her Nursing courses were on the whole slanted in the direction of science and she wishes to broaden her intellectual horizons.

The Executive Committee agreed to allow Miss Moogk to complete her degree requirements by two (rather than one) Arts courses, and two (rather than three) science courses.

Vernon Ray: Mr. Vernon Ray was admitted as a Special student to the academic session 1959-60. He had one matriculation deficiency and took Physics A to clear that deficiency, and four first year courses. He was successful in all of his courses and now petitioned the Faculty for degree credit on his four non-matriculation courses.

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The Executive Committee agreed to grant Mr. Ray's request, but suggested that in such straightforward cases the Dean's office might make the decision.

Harold Albert Courtney: Mr. Courtney, a second-year student in the Modern Languages pattern, lacks the compulsory course in Physical Education of the first year. He is interested in ballet and this year is taking seven hours a week of very strenuous calisthenics, exercises and dancing. He requested that his ballet work be accepted in lieu of the compulsory Physical Education.

The Executive Committee refused the request. While not unsympathetic with Mr. Courtney's request, it was felt that approval of this request would lead to many others and that the regulation should be upheld.

John Alton Blackett: Mr. Blackett completed two years of Engineering and one year in Arts and Science in the Chemistry pattern. He is now in the first year of Dentistry, taking Economics 200 as an extra subject in place of Chemistry 350 completed in Arts and Science. Mr. Blackett asked what he would be required to do to finish his B. Sc. in General Science and noted that originally he was taking a Psychology course instead of Economics 200 as an extra subject, but that this had been cancelled.

The Executive Committee noted that for a B. Sc. in the General Science pattern, Mr. Blackett needs a senior approved C division course and a Special A or B option. It was also noted that Biochemistry 411, to be taken in second year Dentistry, was very similar to Biochemistry 300, a suitable senior C division option. It was felt that Mr. Blackett might be treated as medical students are treated (see page 61, paragraph 3 of the Arts and Science calendar,) and that Biochemistry 411 could be accepted as his missing senior approved C, and Economics taken as his missing approved A or B option. Mr. Blackett, therefore, could be given his B. Sc. in General Science on the successful completion of his second year Dentistry.

There was a brief discussion regarding the petition of Mr. Courtney.

No motion arose, however, out of the discussion.

4. Report of the Committee on the General Course Curriculum:

The Dean outlined his proposal to discuss the report in Council in general terms, so that it may be fully and completely discussed within the Departments during the ensuing two weeks, after which Council would again meet to consider what action, if any, would be taken.

The Chairman of the Committee was asked to amplify the report, a copy of which was before Council members in condensed form.

The Chairman stated that the report is a succinct summary of a great deal of work comprising many meetings, enquiries and individual reports. The report now before Council is, then, a consolidation of the conclusions of the Committee. Before proceeding, he advised that by way of correction, item number

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6 at the bottom of page 4 should be struck out, and item 7 renumbered 6.

He continued that the essence of the Terms of Reference given the Committee was, in the view of the Committee

- (a) What are the objectives of a general education?
- (b) What are the recommendations of the Committee for a general course curriculum?

He pointed out that advocacy of a four year course was not at all a new thought - indeed it had been considered by Faculty Council just after the three year course became operative as a result of the handing over of first year to the High Schools in 1937.

He went on to summarize the report as circulated, following which the Dean pointed out that the report at this stage must be considered as purely interim, and that what this Council now seeks is approval in principle.

The Chairman invited discussion.

One member wondered whether the four year program would not, in fact, discourage students from entry upon the courses leading to the B. A. and B. Sc. degrees. Another expressed himself as disturbed by the composite nature of the resultant courses, labelling it a "potpourri which the student may not be able to sort out." Too, he felt we should carefully consider the effect of this proposal as between ourselves and other Universities; we may lose in competition with them as a result.

A senior member wished the comments of Dr. Hardy as to the effect the proposal would have on the Honors program. Dr. Hardy replied that he was of the opinion that the Honors programs would continue to attract those who wished to specialize and that indeed his Committee had felt that the four year course might well encourage rather than discourage students to enter upon Honors.

The suggestion which gave rise to the most discussion was one member's opinion that if we achieved a good four year program the extra year should be placed at the beginning of the course. This, he felt, would assist students in

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the transition from High School to University. Specialization, he felt, should begin in the second year and can readily do so.

Another member expressed agreement, stressing three years of concentration after a transitory first year. Questioning as to the type of first year the original exponent had in mind brought forth the answer that a common first year was contemplated, incorporating a maximum of imagination and flexibility with a minimum of adherence to past experience if that is not helpful. He contemplated five divisions:

- (a) English, and a foreign language;
- (b) A common humanities course, run conjointly, say, by the Departments of Modern Languages, History, Psychology and English Departments;
- (c) A Social Science Division, comprising such as History, Psychology and Sociology;
- (d) A Science Division.

Since this approach represents quite a different view to that put forward by the Committee, the Dean called for comment. One of the Committee members rose to say that he and some other members of the committee had indeed some such program as outlined in mind for the first year. The Chairman of the Committee added that the Committee, in part at least, had felt strongly that the first year should be a "remedial year," a term distasteful to some but in any event the Committee agreed generally that the first year should be a transitional year.

Another member, agreeing with the original exponent of what may be termed the "selective first year" theory, expressed concurrence and would even carry it further to embrace a common second year. He was of the opinion that the Committee had not reached sufficiently definite conclusions to enable this Council to proceed, for example in the matter of specialization.

Another member stated that he believed the Committee had come to some definite conclusions, but he advocated that the first year be more clearly defined and emphasized that it should be considered a transitional year.

The Dean suggested at this point that members raise other issues in the report so that discussion in the Departments might be facilitated.

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A member from Calgary, speaking on the relative merits of three and four year courses, expressed the opinion that we are infringing on the high school prerogative and warned that we might destroy the incentive to high school students by the adoption of a transitional first year in University.

Another member was of opinion that the Committee had failed to define what was meant by a general education and had failed to define areas of concentration. He felt that as it stood it was an "aimless program" and he suggested the matter should be submitted to a new committee for further investigation.

A member at this point suggested, while referring to the deficiencies of High School entrants, that the University should have its own entrance examinations. This suggestion was ruled out of order by the Chairman. The suggestion, however, led another member to ask if it would be impossible for this Faculty to set examinations to test students seeking to enter this four year program so that if qualified, a superior student might avoid the first year. The Chairman ruled that this, too, was beyond the powers of this Council. Another member rose to point out that, in any event, standards on matriculation examinations are set by the High School and University Matriculation Examinations Board, on which the University is represented. The Chairman pointed out that the possibility of setting University Matriculation entrance examinations had often been raised in the past.

A member thought we should consider whether the addition of a year to the courses is a good thing for society, apart from the University viewpoint. Is it, he wondered, good for the young people themselves?

At this juncture another member asked whether the first year or the years that follow is more important. Should there not, he asked, be more direction from within the Departments to give students a more comprehensive grasp of the work embraced by the Department? The Dean reminded Council that the patterns system, which the proposed program would replace, had been designed with just such Departmental control in mind.

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Another Calgary member felt that the proposed course extension held broad ramifications for the Education Faculty. Would this mean, he asked, that Education would in turn increase the course length? In reply, a member pointed out that present Education course content embraces Arts and Science subjects. He was of the opinion that if this Faculty adopted the four year program, undoubtedly other Faculties would be affected. Alberta should, he added, take steps to orient herself with the rest of the continent more efficiently.

The Registrar stated that he was concerned with the question of equivalences. How, for example, would we integrate a transfer from another University into the four year program? And what was to become of the combined courses?

A member stated that, for his part, he would emphasize the desirability of a broad first year, which led another member to suggest the innovation of a Student Advisory week, during which Department heads would familiarize students with the nature and requirements of the program.

Referring to Paragraph 1 on Page 2 of the report, he felt that the words, "with a knowledge of several areas," were ambitious or ambiguous, and would prefer the expression, "a satisfactory knowledge."

A member suggested that the problem might be met by an extension of the academic year to eight months. The Dean pointed out that this, too, was beyond the powers of this body, even if it was a reasonable alternative to the recommendations of the Committee.

The Chairman of the Committee made brief reference to the suggestions made, pointing out that many had been advanced during the deliberations of the Committee. Consideration had been given to specific B. A. and B. Sc. programs, and a memorandum illustrating them would be prepared and circulated.

The Dean concluded by asking that the fullest possible discussion take place in the Departments prior to resumption of discussion by this Council in approximately two weeks' time.

The meeting adjourned at 6.20 p. m.

Douglas Edmunt

The 492nd meeting of the Council of the Faculty of Arts and Science was held on Wednesday, November 23rd, at 4.30 p. m. in Room 213, Administration Building.

Present were Dean Smith, Chairman; Vice-President Cragg, Professors Allen, Baldwin, Bhatia, Blackley, Brodie, Brown, Bruce, Burwash, Cook, Cormack, Cree, Crighton, Crosby, Davy, Eaton, Eccles, Elder, Empey, Folinsbee, Gainer, Garland, Glyde, Grayson-Smith, Greene, Gunning, Hanson, Hardy, Harris, Harrold, Hirabayashi, Keeping, Kennedy, Kreisel, Laycock, Lorch, Lerbekmo, Lowig, MacArthur, McKenzie, McNamee, Mardiros, May, Moore, Nelson, Newbound, Nursall, Penelhum, Phibbs, Pilkington, Reinhold, Robinson, Royce, Ryan, Schiff, Sharp, Starchuk, Taylor, Thomas, Unrau, von Richthofen, Walker, Wonders, Woods; and from Calgary, Guy, Schonfield, Self and Challice.

1. Minutes of the Meeting of November 7th, 1960:

It was moved by Professor Blackley, seconded by Professor Farnham that the minutes of the meeting of November 7th, 1960, be adopted as circulated. Carried.

2. Business Arising Out of the Minutes:

The Chairman outlined the purpose of this special meeting of Council, to discuss further the report of the Committee to Investigate the Curriculum of the General Course B. A. and B. Sc. Degrees, following/discussion in all Departments. He outlined that it was vital that Council consider carefully and reach some conclusion upon each of recommendations 1 and 2(a) of the Committee, and pointed out that discussion of recommendation 2 (b) of the Committee would also be helpful. The Chairman asked that the discussion be taken under separate headings, confining remarks to each facet of the problem as reached in turn.

The Chairman then called for a motion reflecting the wish of the meeting upon the Committee's recommendation as to the Objectives of the General Course.

In support, the Chairman of the Committee outlined briefly the purpose of the Committee, stating that it was primarily concerned with the question in this regard, "What Should the Objectives of the General Course Program Be?" Professor Hardy then moved, seconded by Professor Brodie that Council is of opinion that in a general education there ought to be at least one principal area of concentration which should be combined with a knowledge of several areas; and further,

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that, while due regard ought to be paid to the needs of students for both a general education and training for a vocation, there should not be too much emphasis on the latter nor should the general education be of such a nature that it lacks depth.

The Dean called for discussion but the question was called and the motion was carried.

It was then moved by Professor Hardy, seconded by Professor Eccles that the General Program in Arts and Science be a four year program. In support of the motion, the Chairman of the Committee stated that the Committee had felt definitely that the theory and practice at present obtaining in Alberta secondary schools led to students not being properly prepared for higher education at the University level.

A member then rose and said that while he was not opposed to the proposal in principle, he felt that it was dangerous to make a change of this magnitude until such time as it could be clearly demonstrated that the three year program was not, in fact, adequate. He suggested that a four year program might be inaugurated, to run concurrently with a three year program.

Another member, referring particularly to Education students who seek a B. A. or B. Sc. after obtaining their B. Ed. degree, expressed the opinion that extension of the Arts course might well discourage such students from continuing. This, he felt, would certainly limit their scope for teaching.

Still another member felt we should make haste slowly. What, he asked, are the ramifications of this move? Can one not achieve both a general education and professional training within the ambit of an Honors program? He found he could not contemplate a four year program without in fact bringing the Honors program to his mind. He realized, of course, that the Committee was not in fact concerned with the Honors program, but he did indeed feel we should proceed slowly, and suggested that the report be referred back to the Committee for further study

for, say, one year. He was inclined to think that the inferior students would gravitate to the three year course and that the Honors standards would suffer.

A member rose to say that we cannot, in any event, be unmindful of the fact that many students will be coming to the University from outside the Province - we should carefully consider the effect of our actions on such prospects.

A Department Head, speaking he said for himself and not his Department, felt that as far as the sciences were concerned students could not, with the additional year, get any more than they could in an Honors program. He too felt that the B. A.-B. Ed., B. Sc.-B. Ed. combinations would be affected seriously, and that our competition with other Universities would likewise feel the result. He expressed himself in support of the suggestion that the three year program should be carried on concurrently with a four year program.

A member stated that he was of opinion that were students confronted with a choice, they would be inclined to enroll in the shorter and least expensive course.

Another member pointed out that McGill, Manitoba and B. C. all have four year programmes; Manitoba also has a three year program. He did not think our main consideration should be the effect which the four year program might have on Education students, but rather, - is this fourth year necessary? From a survey conducted in the Department of which he is a member, he would certainly conclude that the extra length was justified, if only to correct "the abysmal ignorance of first year entries."

A Department Head felt that the real question before Council is, Do we believe in General Education? Special education in his view is represented by the Honors programs; general education, he felt, is regarded as "second best" for those students who cannot qualify for Honors. He was of opinion that more students should pursue the general program, and it should be a good four year program. If it takes four years to specialize, he said, it should take four years to generalize properly. He could see that we would indeed have to continue the three year program for a time, but ultimately he considered, we will have to

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switch to the four year basis as he did not think concurrent existence of the two programs would be practical.

A member rose to say that he felt that the move to the four year program would in effect increase the gap between matriculation and the University level, with a resultant disservice to the people of the Province. He would suggest instead a Majors Program as an alternative to the general course program as we now know it.

The Dean referred to the comparison of our courses with those ^{at?} pertaining elsewhere in the world. High school students from the United Kingdom in many cases would appear on matriculation comparable to our students who have completed first year university. Our students, on the other hand, compare favorably on matriculation with students in the better universities of the United States. In the United States, he pointed out, they are, however, entering upon a four year course.

The member who had risen previously and suggested that the inadequacy of the three year program should first be demonstrated, now stated that the general course on a four year basis would not, in his opinion, be ^a sub-honors course. He re-emphasized his previous conviction, and suggested that the two programs could run concurrently.

A Department Head asked why Toronto discarded its three year program, but the previous speaker was not acquainted with the reason.

The Vice-President said that he felt there was much in favor of the four year course. He himself has taught Chemistry to Alberta High School graduates and found that they are not as well prepared as, say, Ontario students. He went on to point out, however, that even if we instituted a four year general program it would not be equivalent to the Toronto four year course. He felt that our students here are not trained to be intelligently aware of what is going on in the world. This was not said, he stated, in criticism of the Alberta High School system; rather it is a statement reflecting his conviction that our students

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are not as well prepared as are students in Ontario under their five year preparatory scheme. In any event, he was of opinion that neither the Board of Governors nor the public would endorse the proposal before Council at this time. We should, he felt, record our recommendation that a four year program be introduced to run concurrently with the three year course. He was of opinion that, in time, the three year course would prove itself inadequate.

At this juncture, it was moved by Professor Gunning, seconded by Professor Grayson-Smith that the motion of Professor Hardy be amended to read that the present three year program be continued and that a four year general program be instituted.

This led a former speaker to observe that in his opinion Council put itself, should the motion be adopted, in a position where an inadequate three year course and an adequate four year course are both offered, which he felt was not a forthright, honest position for Council to assume.

The Dean interjected that possibly a change of mode of presentation of the plan might be helpful. Council could, for example, consult the Senate, ascertain community feeling as preparatory steps.

This led to another member rising to state that in his opinion it would be better to put forth at this time an unambiguous recommendation. Further, he said, with reference to the suggestion that we gauge community feeling, is not Council itself in a better position to judge the relative merits of the three and the four year plans?

A member stated that he was of opinion that the lack of information before Council as to specifically what had transpired and what conditions were presently extant at other Universities, was a barrier to this body in reaching an intelligent conclusion.

Another member observed that he was informed that there were a good many three year Geology graduates unable at the present time to find employment.

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This discussion prompted the Chairman of the Committee to rise again, reaffirming that the Committee did in fact discuss the possibility of instituting the two programs concurrently, but the Committee concluded that confusion and ambiguity would result. The Committee, he emphasized, were concerned that the best and most desirable curriculum for this University be selected. His own experience had been that High School education has deteriorated in Alberta since 1940, with the result that University courses have had to be cut down to meet the inadequacy of the students presenting themselves for entry. Other Departments had apprised him of the same experience in their realm; the Committee was forced to the conclusion that the addition of one year to the course was the only sound answer.

The Dean called on Professor Blackley, as Secretary of the Committee, to explain briefly the methods employed by the Committee in gathering and collating data. Professor Blackley replied that they had found that some information was available, and regrettably some was not. Many calendars were consulted, British, Canadian and American. And, he reiterated, the Committee concluded that regardless of what was done elsewhere, here in pursuit of a good honest general education we needed a four year program. The Committee was not concerned, he added, with whether or not the recommendations were acceptable to the governing body of the University, - such was of course for decision elsewhere and outside the reference to the Committee.

In answer to a query at this point, the Chairman advised that the Committee had considered a professional degree and had rejected the suggestion after consideration.

At this point, the Dean called for a vote on the amendment to the motion, cautioning members that if they were of opinion that Council did not have sufficient information before them they must vote against both the amendment and the motion itself.

The Chairman ruled, after several counts, that the vote was a tie, and that, in the result, the amendment was lost.

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It was moved by Professor Folinsbee, seconded by Professor Blackley, that the original motion be amended to read, that the general program in Arts and Science should be a four year program.

The Vice-President stated that the motion as now amended would express the opinion of Council that it recognizes the inadequacy of a three year program, and this he would himself endorse.

The author of the amendment rose to state that his amendment meant that nothing would be referred to the Board of Governors for consideration at this time.

This led another member to reiterate that the question should thus be sent back to the Committee for further study, but his attempt to incorporate this in a further amendment was disallowed by the Chair until the amendment before Council was duly considered. The Chairman then put the amendment to Council for vote, and it was carried.

A member immediately suggested that the fact that the amendment was well received would perhaps indicate that the original motion as amended might now find favor, but the Chairman ruled the suggestion out of order.

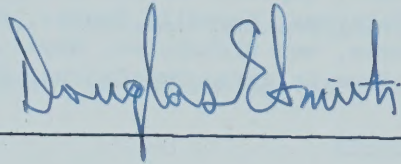
It was moved by Professor Self, seconded by Professor Farnham, that the matter be referred back to the Committee for further study. Professor Blackley then sought to move an amendment that a new committee be appointed, but no one came forth to second the amendment. The Chairman of the Committee, however, also went on record as being in favor of the appointment of a new committee.

It was moved by Professor Eccles, seconded by Professor Blackley that the motion be amended to read that a Committee be appointed to determine how the four year program may best be implemented. The Chairman suggested that the matter of program content would be deferred. Upon vote, the amendment was carried and the Chairman ruled that in his view the motion as amended was also carried.

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Professor Hanson moved a vote of thanks to the Curriculum Committee for their work in a most difficult assignment, which was carried unanimously.

The meeting adjourned at 6.10 p. m.

A handwritten signature in blue ink, reading "Douglas Smith", is written above a horizontal line.

Dean.

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The 493rd meeting of the Council of the Faculty of Arts and Science was held on Monday, December 5th, 1960, at 4 p. m., in Room 213 of the Administration Building. In the absence of Dean Smith, Professor Wyman took the Chair.

Present were: Professors Allen, Baldwin, Blackley, Brodie, Bruce, Cormack, Crichton, Crosby, Davis, Eaton, Eccles, Elder, Empey, Folinsbee, Godfrey, Grayson-Smith, Greene, Hanson, Hough, Howarth, Jacka, James, Jones, Keeping, *Hardy*, Kennedy, Kreisel, Laycock, Lorch, Lowig, MacArthur, McKenzie, Mandel, Mardiros, May, Moore, Narayana, Nursall, Pearce, Pilkington, Reinhold, Royce, Sharp, Spencer, Starchuk, Thomas, von Richthofen, Whyte, Wonders, Wyman; Professors Hyne, Scargill and Winspear from Calgary; Mr. Cairns, Registrar.

1. Minutes:

The minutes of the last regular meeting of Council had been approved at the special meeting held on November 23rd, 1960. The minutes of the special meeting would be circulated prior to the January 1961 meeting of Council.

2. Executive Committee Report:

(1) Calendar Changes:

Council next considered the Report of the Executive Committee on proposed calendar changes, a copy of which had been sent to each member. The chairman dealt with Section A of this report, considering each desired change in sequence. The secretary amended when necessary the Report, which when fully corrected was attached to the official copy of the minutes of this meeting.

(a) Music:

It was moved by Professor Eaton, seconded by Professor Blackley, that the desired changes in Music be approved. This motion was carried.

(b) Psychology:

It was moved by Professor Royce, seconded by Professor Howarth, that the desired changes in Psychology be approved.

A member of the Division of Educational Psychology, Faculty of Education, pointed out that these proposals had not been discussed with his division. Professor Royce apologized for this oversight, saying that he was new and not familiar with this practice. He felt, however, that the changes requested were of a general nature and not particularly related to Education^{al} Psychology. Motion carried.

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(c) Geography:

It was moved by Professor Wonders, seconded by Professor James, that the desired changes in Geography be approved. The motion was carried.

(d) History:

It was moved by Professor Thomas and seconded by Professor Eccles that the desired changes in History be approved. Professor Thomas explained that History 201 would replace History 200. It was similar to 200 but not as extensive in scope. The motion was carried.

(e) Philosophy and Sociology:

It was moved by Professor Mardiros, seconded by Professor James that the proposed courses in Anthropology and the desired changes in Philosophy and Sociology be approved. The Chairman noted that the proposed Philosophy 346 was also numbered as Classics 346.

Professor Mardiros explained that inclusion of proposed courses in Anthropology did mean that it was hoped to provide an anthropologist on the staff, who would be attached temporarily to his department. The Assistant Dean noted that the department at Calgary did hope to offer a course in Archaeology, perhaps utilizing the full-time archaeologist on the staff of the Glenbow Foundation. This was still under discussion. While there was a relationship between archaeology and anthropology, Professor Mardiros pointed out that anthropology was concerned with primitive cultures of the present day and archaeology with cultures of the past. Archaeology and Anthropology were two different subjects but would be under perhaps the same department initially.

The description attached to Philosophy 360 was questioned. Professor Mardiros stated that it was not necessary for a student taking this course to have had mathematical training at the university level. While some mathematical ideas and concepts were involved, the course was a course on symbolic logic and those who took it would have these ideas and concepts fully explained.

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Professor James provided information on Sociology 390 and 490. These proposed courses were courses designed for the general student, although 490 would attract specialists. Both had resulted from demands that such courses be taught; courses in these areas were even now being supplied by the department without credit. The numbers 390 and 490 had been especially selected with the students in mind who might take the courses. The motion was carried.

(f) Physics:

It was moved by Professor Grayson-Smith, seconded by Professor Folinsbee, that the desired changes in Physics be approved. These were mostly concerned with the lengthening of laboratory hours, a long desired move made possible by the new facilities at the disposal of the department. The motion was carried.

(g) English:

It was moved by Professor Jones, seconded by Professor Elder that the changes desired by the department of English, subject to English 389 (on page 9) being corrected to English 334, be approved.

Professor Jones explained that the proposed new courses to be offered in Calgary only represented adaptations of Edmonton courses to the staff of the department in Calgary. The motion was carried.

(h) Chemistry:

It was moved by Professor Davis, seconded by Professor Hyne, that the changes desired by the department of Chemistry be approved, subject to correcting the prerequisites for Chemistry 593 and assigning a new title to Chemistry 581. The prerequisites for Chemistry 593 should read, "Chemistry 450 or 550 and Chemistry 370 or 372;" the title for Chemistry 581 should be "Advanced Techniques in Physical Chemistry." The motion was carried.

(i) Mathematics:

It was moved by Professor Keeping, seconded by Professor Sharpe, that the three new graduate courses desired by the department of Mathematics be approved. The motion was carried.

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(j) Economics:

It was moved by Professor Hanson, seconded by Professor MacKenzie, that the changes in Economics desired by the Department of Political Economy be approved.

Professor Hanson explained that, while no prerequisites were given for Economics 504, it would be offered only to ^{honors and} graduate students with an adequate background in Mathematics and Statistics.

The motion was carried.

(k) Political Science:

It was moved by Professor Hanson, seconded by Professor MacKenzie, that the changes desired in Political Science by the Department of Political Economy be approved. The motion was carried.

(l) Botany:

It was moved by Professor Brodie, seconded by Professor Cormack, that the changes desired by the Department of Botany be approved, subject to the addition of a prerequisite for Botany 350. The prerequisite for Botany 350 should read "Botany 201, or permission of the instructor."

Professor Brodie explained that the proposed half-course Botany 321, which would be taken with another half-course, Zoology 321, had been designed to meet the wishes of the Department of Geography. Zoology 321 would be presented at a later date for Council approval.

Council was informed by Professor Brodie that Botany 501, a proposed Honors and Graduate course, had been discussed with the Department of Physiology to avoid overlapping with courses given by that Department.

The motion was carried.

(m) Zoology:

It was moved by Professor Nursall, seconded by Professor Brodie, that the changes desired by the Department of Zoology be approved. The motion was carried.

(n) Modern Languages:

It was moved by Professor Greene, seconded by Professor Reinhold, that

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the changes contained in Section A of the Report of the Executive Committee be approved, as desired by the Department of Modern Languages.

An amendment to the motion was moved by Professor Thomas, seconded by Professor Eccles, that Russian 680 be deleted from the changes to be approved.

Professor Thomas desired assurances that Russian 680 (Slavonic Civilization) would not overlap with courses in Russian History offered by his department. Professor Starchuk attempted to allay the fears of Professor Thomas by reading a tentative description of the proposed Russian 680. This description was not to appear in the calendar since the course was desired on the Honors and Graduate level. However Professor Thomas felt that a conference between the two departments concerned would best resolve difficulties, and Professor Greene indicated that he would not oppose this suggestion.

The motion, as amended, was carried.

(o) Geology:

It was moved by Professor Folinsbee, seconded by Professor Blackley, that the proposed new course Geology 402 be approved. A member of Council expressed his satisfaction at the introduction of non-professional science courses on the senior level. The motion was carried.

The Chairman then passed to Section B of the Report of the Executive Committee. The first item here concerned courses in Comparative Literature proposed by the Department of Modern Languages. The Executive Committee, while it had approved the recommendation in principle, felt that these courses should all be at the Honors and Graduate Level.

Professor Greene, for the Department of Modern Languages, explained that many members of his department had done their advanced research in the field of comparative literature; he felt that this research should be utilized. Comparative literature on the graduate level could be quite intricate but the subject could be presented on a level suitable for third year students.

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In answer to questions, Professor Greene said that he did not consider comparative literature to be the peculiar prerogative of the Modern Languages Department. Other departments might well wish to offer others at some later date. The courses proposed were not designed to be easier than courses in one foreign literature only; a prerequisite of a senior foreign language at least was a requirement for each.

Professor Reinhold explained why linguistic courses were "contrasted" and why the literature courses contemplated were "comparative." The term "contrasted" was used since the study was contemporary, whereas the term "comparative" was used for the historical approach.

A member of Council suggested that, since only third year students could take the senior courses, these should be numbered in the 400 range rather than in the 300 range. To this Professor Greene agreed, but stated that he did not know what numbers would best be suited without study. He noted that the prerequisite for Comparative Literature 398 should read, "Open to senior students of both French and German."

It was moved by Professor Greene, seconded by Professor Moore, that the proposed A division courses in Comparative Literature (subject to a renumbering in the 400 range of Comparative Literature 390, 394 and 398) be approved.

The motion was carried.

The Chairman next passed to the second item in section B of the Report of the Executive Committee. This was the request of the Department of Modern Languages to introduce courses in Italian and Polish. While the Executive Committee had recognized the need of the Department of Modern Languages for additional languages in its Honors and Graduate programs, it felt that the Department should justify the particular languages recommended and indicate to what extent the Department saw their use in the patterns program.

It was moved by Professor Greene, and seconded by Professor Starchuk, that the courses requested be introduced.

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Professor Greene pointed out that in the Romance and Slavonic fields its Honors and Graduate students were at a disadvantage when they went elsewhere for further study since the programs here lacked breadth, a lack which would be overcome by offering courses in Polish and in Italian. Without such courses many graduates would be inclined to go elsewhere for their Ph. D. degree. He did not feel that the courses requested should be confined to Honors and Graduate courses but should be open to students in B. A. programs as A division options. Italian 350, really, was not a new course; it existed already as Romance Literature 350, to be withdrawn if Italian 350 was approved.

There was considerable discussion on the merits of the Polish language and its literature. Council was informed that Polish was as different from Russian as Italian was from French. A member of the Modern Languages Department stated that Italian literature is generally regarded as one of the richest in all Western Literature and that courses in Italian should be open to all students interested in the fields of languages and of literature. Polish could be taken without restriction at British Columbia as a foreign language.

Professor Baldwin noted that Italian 350 was followed by the statement, "A survey course designed for students of French and Spanish Literature, English, Drama and the Fine Arts." He moved, seconded by Professor James, that Italian 350 be restricted to Honors and Graduate students only. This amendment to the motion was not carried.

To Professor Baldwin's opinion that the course was not suitable for members of the English Department, Professor Greene replied that the sentence quoted by Professor Baldwin was put in for information only and would not appear in the calendar. Departments, as always, alone decided what were suitable options for their pattern students, but his department had drawn up the course in the hope that other departments might be interested in it.

The motion was carried.

The Chairman now turned to Section C of the Report of the Executive

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Committee. The Department of Modern Languages had requested that the existing restrictions on Ukrainian as a subject for faculty credit be withdrawn. The Executive Committee, in view of the stand adopted by Faculty Council on Ukrainian at the Council meeting of December 1st, 1958, recommended against this change.

It was moved by Professor Greene, seconded by Professor Cormack, that the note found under Ukrainian on page 137 of the current Arts and Science calendar be deleted and that Ukrainian be considered as a regular language option.

This proposal led to a good deal of spirited discussion on the claims of Ukrainian to be a distinct language and to be a language with a wide literary background. There was some feeling that Ukrainian was merely a Russian dialect and that the pressure for its recognition was "nationalistic in origin." On the other hand, Professor Starchuk pointed out at length that, in his opinion and in the opinion of many experts, Ukrainian was the purest ~~and the best~~ of the Slavonic Languages. It was impossible to reconcile the two opinions that were evident.

An amendment to the motion to stand the question over for further study could find no seconder, and the motion was carried.

(2) Petitions:

The Secretary advised Council that only one petition had been considered by the Executive Committee, the petition of Miss Marjorie E. Hoey. Miss Hoey, a B. Ed. graduate from the University of British Columbia, wished to begin work for a B. A. at Calgary. The normal procedure with such people was to apply our own B. A. after B. Ed. regulations, but in this case they would work a hardship upon Miss Hoey, who would be required to obtain credit in sixteen courses for her second degree. The Executive Committee agreed to reduce this requirement to thirteen courses by utilizing three Education courses whose Arts content was quite high.

3. Proposal Before General Faculty Council to Limit the Repetition of Any University Course:

The Chairman explained that there was a motion before General Faculty

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Council to limit students to one repetition of any course previously failed. Any further repetitions must be sanctioned by the Faculty Council of the student concerned. Dean Smith wished to get the opinion of Council on this matter. It was pointed out that students might attempt to circumvent this rule by taking Mathematics 200 after having failed Mathematics 201 twice.

Since the hour was late, discussion was limited.

It was moved by Professor Grayson-Smith, seconded by Professor Nursall, that Council recommend to General Faculty Council that a student be permitted to repeat a course only once, and that such a repetition be taken to include courses that are considered as equivalents to the course already taken (e. g. English 200, 210, 230.)

The motion was carried.

4. Other Business:

Professor Starchuk sought to move that the Faculty take appropriate steps to support the inclusion of Russian in the languages of matriculation. The chairman, pointing out the lateness of the hour, said that he would accept this only as a Notice of Motion, to be considered at the next meeting of Council. Professor Starchuk expressed his willingness to comply with this request.

The meeting adjourned at 6.35 p. m.

REPORT OF THE EXECUTIVE COMMITTEE

The Executive Committee presents the following report to Council. The Executive Committee recommends that the calendar changes given in Section A be approved by the Council of the Faculty of Arts and Science. It refers Sections B and C to the Council with the recommendations given therein.

SECTION A

I. Division of Music

(1) New Courses:

Music 510. Notation of Medieval Music (2-0; 2-0)

A study of the development of notation through the various schools of neume notation, Gregorian notation, Troubadour, early polyphonic, modal notation, the Franconian system and the period of Ars Nova. The transcription of facsimiles.

Textbook: Parrish, The Notation of Medieval Music

Music 520. Notation of Renaissance Music (2-0; 2-0)

A sequent course to Music 510. Tablature and keyboard notation, proportional notation, white notation of the 15th and 16th centuries. A transcription of facsimiles.

Textbook: Parrish, The Notation of Renaissance Music

Music 451. Analytical Techniques (1-0; 1-0)

Analysis of the larger forms. Structural elements in music of the 20th century.

A laboratory course to be taken concurrently with 450.

(2) Course Changes:

First Practical Subject in first year of B.Mus. program to be called - Music 225.

Second Practical Subject in first year of B.Mus. program to be called - Music 215.

These two subjects to be known in the second and third years of the B.Mus. programs as - Music 325, 315 and 425, 415 respectively.

Laboratory courses already being offered within Music 250 and 350 now to be extracted and designated as follows:

Music 251. Form and Analysis (0-1; 0-1)

The basic principles of musical structure. A study of binary and ternary forms, the sonata, concerto and fugue.

Textbook: Macpherson, Form in Music.

Music 351. Harmonic Analysis (0-1; 0-1)

Analysis of chord structure and all types of non-harmonic movement. Chromatic harmony in the various periods up to Debussy.

Music 251 and 351 are required for all students enrolled in Music 250 and 350 respectively.

First Practical Subject in the B.Mus. Program

As the first group of candidates for the degree of B.Mus. enters its final year, it is apparent that at least one of the students will not complete the requirements of the First Practical Subject (A. Mus. Diploma). This means that the degree will be withheld until this deficiency is corrected.

In the case of B.Mus. students lacking this one requirement, I would like the Council to approve that a time limit of two years be granted them in order that they may complete the requirements of the First Practical Subject. Also that the responsibility of correcting this deficiency be the student's.

Addition under Note II First Practical Subject (p. 79 of current calendar):

All students in the B.Mus. program are required at the completion of this program to have had three years of instruction, at University level, in their First and Second Practical Subjects.

II. Department of Psychology

(1) New Courses:

Psychology 472. Comparative and Physiological Psychology (3-1; 3-1)

R. C. Miles

An analysis of behavior with reference to phylogenetic difference and physiological mechanisms.

Prerequisite: Psychology 202 and Zoology 220, or consent of instructor.

Psychology 500. Psychology Proseminar (4-0; 4-0)

An intensive survey of the major areas, problems, and methodologies in the field of psychology.

Required of all students in the fourth year of psychology.

Psychology 528. Advanced Psychometric Theory (3-1; 3-1)

Principles of psychological measurement with stress on test theory, psychophysical methods and scaling, and factor analysis. Includes such topics as reliability, validity, item analysis, law of comparative judgment, centroid analysis, simple structure, and factorial applications in psychology.

Prerequisites: Psychology 430 and Statistics 205.

Psychology 574. Seminar in Philosophy and Psychology (2-0; 2-0)

J. R. Royce (Psychology) and P. Radcliff (Philosophy)

A study of the fundamental methodological, conceptual and philosophical issues in psychology.

(2) Course Changes:

Statistics 305 - Change the course number to 205. (The Department of Mathematics has been contacted.) ✓

Psychology 382 - Change the word sociological to social. Drop the words "the mature personality".

Psychology 530 - Delete the course description. Change prerequisites to read Psychology 430 and Statistics 205.

Psychology 572 - Insert the words "Research in" at the beginning of the title.

(3) Course Deletions:

Psychology 342 - Psychology in Relation to Human Welfare

Psychology 432 - Theory of Psychometrics

Psychology 580 - The Study of the Individual

III. Department of Geography

(1) New Courses:

Geography 303. Weather and Climate (3L-0; 3L-0)

A systematic study of weather processes and phenomena, regional weather patterns, climatic classification, and climates of the continents with some consideration of climatic trends. Laboratory work will include the interpretation of weather and climatic maps and local weather patterns.

Prerequisite: Geography 201 or consent of the instructor.

NOTE: This is a C division course.

Geography 412. Latin America (3-0; 3-0)

A survey of the physical features of Middle and South America, followed by consideration of aboriginal peoples, settlement by the Europeans and a regional analysis of the individual countries.

Prerequisite: A course in geography, or consent of the instructor.

Geography 414. Africa (3-0; 3-0)

A general survey of the physical geography of the continent, its colonization and resources, followed by detailed regional studies.

Prerequisite: A course in geography, or consent of the instructor.

Geography 500. History and Nature of Geography (1-2s; 1-2s)

Geography from ancient times to the present; the most important geographers and an assessment of their contributions; significant contemporary geographic concepts; current major developments within special branches of geography; geography in other countries.

Prerequisite: Consent of the instructor.

Geography 405. Introduction to Theoretical Meteorology. (3L-0; 3L-0)

A study of the physics of the atmosphere, including thermodynamics, stability, equations of motion, friction and turbulence, mechanics and structure of cyclones and anticyclones.

Prerequisite: Mathematics 201, Physics 240.

NOTE: This is a C Division course.

(2) Course Changes:

Geography 501 - To the course description add "NOTE: This is a C Division course".

Geography 406 - A change in prerequisite from "One of Geography 1, 50, 51, 201, 300, 302 or consent of the instructor" to "A course in geography or consent of the instructor".

Geography 501 - A change in prerequisite from "One of Geography 1, 50, 52, 201, 300, 301 or consent of the instructor" to "A course in geography or consent of the instructor".

IV. Department of History

(1) New Courses:

History 201. European History (3-1s; 3-1s)

European civilization since the Renaissance.

History 382. The Middle East (3-0; 3-0)

A survey of the political and social history of the Middle East with emphasis on the period since 1853.

V. Department of Philosophy and Sociology

(1) New Courses:

Anthropology 202. Elementary Anthropology (3-1; 3-1)

An introduction to the field of anthropology, including human paleontology, race, human prehistory, linguistics and ethnology.

Anthropology 350. Indians of North America (3-1; 3-1)

A survey of the cultural and linguistic areas of aboriginal North America, and including a comparative and historical study of technology, social organization, economic systems, religions, art and language. Some emphasis will be given to the Indians of Canada.

Geography 505. Introduction to Theoretical Geography. (3-0; 3-0)

A study of the physical of the atmosphere, including thermodynamics, stability, equations of motion, radiation and turbulence, mechanics and structure of cyclones and anticyclones.

Prerequisites: Mathematics 201, Physics 250.

NOTE: This is a 2 Division course.

(2) Course Overview:

Geography 501 - To the course description and "NOTE": This is a 2 Division course.

Geography 502 - A change in prerequisite from "One of Geography 1, 20, 21, 201, 202 or consent of the instructor" to "A course in Geography or consent of the instructor."

Geography 503 - A change in prerequisite from "One of Geography 1, 20, 21, 201, 202 or consent of the instructor" to "A course in Geography or consent of the instructor."

IV. Department of History

(1) New Courses:

History 301. European History

European civilization since the Renaissance.

History 302. The Middle East

A survey of the political and social history of the Middle East with emphasis on the period since 1875.

V. Department of Philosophy and Sociology

(1) New Courses:

Anthropology 502. Kinship Anthropology

An introduction to the field of anthropology, including human paleontology, race, human prehistory, linguistics and ethnology.

Anthropology 503. Indian of North America

A survey of the cultural and linguistic areas of aboriginal North America, and including a comparative and historical study of technology, social organization, economic systems, religions, art and language. Some emphasis will be given to the Indians of Canada.

Sociology 490: Medical Sociology

(3-0; 3-1)

A survey of the sociology of medicine and the role of sociology in medicine. Analysis of sociological concepts relative to the field of medicine will be made, along with a review of recent research in such areas as attitudes toward illness and health, hospital organization, medical services, etc. Research will be carried out by students.

Prerequisite: Consent of instructor.

Sociology 390: Industrial Sociology

(3-1; 3-1)

A sociological analysis of the industrial system; industry and society; the industrial community; management-labour relations; bureaucracy; the sociology of work and the professions; informal organization in the work group.

Philosophy 346. Religion in Classical Times

(3-0; 3-0)

(An historical and philosophical survey; also listed as Classics 346)

A. D. Winspear

Lectures will be given on the totemic background of ancient religion, Matriarchy, the Homeric Pantheon, the Chthonic deities, the Mystery Religions, the Religion of Numa, Gnosticism, Syncretism.

References: Guthrie - The Greeks and their Gods
Warde Fowler - The Religious Experience of the Roman People

(To be offered in Calgary only)

Philosophy 348. Nineteenth Century Philosophy

(3-0; 3-0)

Philosophy 574. Seminar in Philosophy and Psychology

(2-0; 2-0)

P. Radcliff (Philosophy) and J. R. Royce (Psychology)

A study of the fundamental methodological, conceptual, and philosophical issues in psychology.

Philosophy ⁵⁵⁶~~550~~. The Philosophy of Kant

(3-0; 3-0)

Philosophy ⁵⁷⁰~~550~~. Philosophy of Language

(3-0; 3-0)

(no change)
As amended
Prof. Marquis
Jan. 31/61

(2) Course Changes:

Change Sociology 302 to Anthropology 302. Course description, etc. unchanged.

Change Philosophy 260. Introduction to Logic and the Theory of Knowledge to Philosophy 260. Introduction to Logic, Semantics and Scientific Method.

Course description unchanged.

Change Philosophy ~~324~~³⁴² Modern Philosophy to Philosophy 342. Philosophy from Descartes to Kant.

Philosophy 360 - Change of name and course description:

Philosophy 360. Symbolic Logic (3-0; 3-0)

This course treats the following topics: inference and argument; validity and consistency; the sentential calculus; the predicate calculus; the calculus of identity; the theory of descriptions; formalization of logic and the axiomatic method; Syntax and Semantics; the deduction theorem; the Post and Hilbert-Ackermann consistency proofs; concepts of independence and completeness of a formal system; elementary theory of sets (classes); Boolean algebra and existence-free logics.

Prerequisite: A previous course in Philosophy, or consent of instructor.

VI. Department of Physics

(1) Course Changes:

The following are changes in hours and prerequisites:

Physics A and 100 to become (3-3; 3-3)

Physics 200 to become (3-3; 3-3)

Physics 240. Corequisite: Mathematics 201 (Mathematics 200 may be accepted by special permission)

Physics 320 should read (2-0; 1-3)

Physics 340 to become (3-3; 3-3)

Physics 360 should read (3-3; 3-2s)

Note to be added: Credit may not normally be given for both Physics 360 and Mathematics 310.

Physics 380 to be (3-3; 3-3)

Physics 470 and 480. Prerequisite or corequisite: Mathematics 420 or 421 and 422.

Physics 510. Prerequisite: Mathematics 304 or 420 or 421 and 422.

Physics 520, 540, 550, 560. Prerequisite: Mathematics 420 or 421 and 422.

Physics 540 to become (2-0; 2-0). Delete words "One hour per week ... problems."

Physics 570 to become (2-1s; 2-1s). Prerequisites: Mathematics 421, 422 and 430.

The following are changes in descriptions:

Physics 440. Electronics (2-3; 2-3)

Theory and use of electron tubes and solid state devices, including four-terminal active and passive networks; equivalent circuits; resonant and coupled circuits; filters; amplifiers and oscillators; non-linear circuits; digital and analog circuits.

Prerequisite: Physics 340 or 380, Mathematics 304 or 306.

Physics 471. Advanced Laboratory (0-3; 0-3)

Methods in experimental atomic physics and spectroscopy.

Corequisite: Physics 470.

Physics 480. Electromagnetism.

Potential theory; description of electromagnetic field using vector methods; Maxwell's equations; Electromagnetic waves in continuous media and in guides. Selected topics in electromagnetism.

Physics 510. Thermodynamics and Kinetic Theory

Add "thermodynamics of irreversible processes."

Physics 571. Advanced Laboratory (0-4; 0-4) or (0-7; 0-7)

Methods in experimental atomic physics, spectroscopy and nuclear physics, introduction to modern laboratory techniques. The number of hours required and the experiments assigned depend upon the student's complete fourth year program.

Prerequisite or corequisite: Physics 470.

VII. Department of English

(1) New Courses:

English 240. A Survey of English Literature (3-0; 3-0)

A survey of English literature from Chaucer to the present day. Frequent essays will be set to afford practice in composition.

(To be offered in Calgary only.)

English 312. Old and Middle English (3-0; 3-0)

Selections from the prose and poetry of the Old and Middle English periods.

(To be offered in Calgary only.)

English 342. The Seventeenth Century (3-0; 3-0)

Selections from the prose and poetry of the seventeenth century.

(To be offered in Calgary only.)

English 368. Victorian Poetry and Prose (3-0; 3-0)

Representative prose of Ruskin, Carlyle, and others. Selections from Tennyson, Browning, Arnold, Clough, and some minor poets. Selected novels.

(To be offered in Calgary only.)

English 382. Modern British and North American Literature (3-0; 3-0)

A study of representative British and North American authors who have made original contributions to English literature in this century.

(To be offered in Calgary only.)

English 386. The Development of Modern English (3-0; 3-0)

The study of the nature and development of the sounds, grammar, vocabulary, and spelling of the English language.

(To be offered in Calgary only.)

English ^{334.}~~387.~~ Elizabethan and Jacobean Drama (3-0; 3-0)

A study of the English drama from 1580 to 1642. Among the dramatists to be studied will be Kyd, Marlowe, Shakespeare, Jonson, Webster, and Ford.

(To be offered in Calgary only.)

English 391. A Survey of the English Novel (3-0; 3-0)

A study of the English novel from Defoe to the present day.

(To be offered in Calgary only.)

English 395. English Literature from the Late
Eighteenth Century On. (3-0; 3-0)

A close study of representative masterpieces.

English 671. Studies in Victorian Poetry (3-0; 3-0)

English 672. Studies in the Victorian Novel (3-0; 3-0)

(2) Course Changes:

English 200. English Literature from Chaucer to the Late Eighteenth Century.

A close study of representative masterpieces. Essays and tests on the prescribed literature will be given to afford practice in setting down ideas in good English.

English 390. The Development of English Drama to 1800

A historical and critical study of English drama from its beginnings to the end of the eighteenth century. The works examined will include specimens of mediaeval drama and plays by Marlowe, Jonson, Webster, Dryden, Congreve, Sheridan, and others.

English 394. English Literature of the North American Continent.

A selection of representative major writers.

English 682. Studies in Twentieth Century Poetry

III. Department of Chemistry

(1) New Courses:

Chemistry 589. Statistical Mechanics (0-0; 3-0)
F. W. Birss

An introduction to statistical mechanics. Applications to problems of chemical interest will be stressed.

References - Mayer and Mayer: Statistical Mechanics. Gurney: Introduction to Statistical Mechanics. Hill: Introduction to Statistical Thermodynamics.
Prerequisite: Chemistry 583.

(This course is to be offered second term of 1960-61 session.)

Chemistry 591. Radiation Chemistry (0-0; 3-0)
D. A. Armstrong

Brief discussion of radiation sources; interaction of radiation with matter; chemical effects of radiation.

Prerequisite: Chemistry 370 or 372.

(To be offered in Calgary and, if staff is available, in Edmonton.)

Chemistry 593. Spectroscopy and Molecular Structure (0-0; 3-0)

To be arranged.

A study of the spectral characteristics of matter. This will include the application of ultra-violet, visible, infrared, microwave, Raman, atomic, N.M.R. and E.S.R. spectroscopy to problems of molecular structure.

Prerequisite: Chemistry ~~350~~ ^{450 550} or ~~450~~ and Chemistry 370 or 372.

(To be offered in Calgary and, if staff available, in Edmonton.)

(2) Course Changes:

Chemistry 557 - change number to 657.

This course is now restricted to graduate students, so the number should be in the 600 range.

Chemistry 372 - remove Mathematics 304 from the prerequisites.
Add: Prerequisite or corequisite Mathematics 304.

Chemistry 553 - Add: Prerequisite or corequisite Chemistry 450 or 550.

Chemistry 583 - Quantum Mechanics (0-0; 3-0)

F. W. Birss

An elementary course in quantum mechanics with application to chemical problems.

Prerequisite: Chemistry 370 or 372

Chemistry 611 - Change hours from (0-0; 3-0) to (3-1; 0-0)

Chemistry 511 - Change hours from (0-0; 3-6) to (3-6; 0-0)

Chemistry 581 - Change hours from (3-3; 0-0) to (3-6; 0-0).

Add prerequisite Chemistry 370 or 372.

Change in title to "Advanced Techniques in Physical Chemistry"
Chemistry 531 - Change hours from (3-3; 0-0) to (0-0; 3-3).

X. Department of Mathematics

(1) New Courses:

Mathematics 616. Topics in Functional Analysis (3-0; 3-0)

Selected chapters from the theory of linear spaces and operators, harmonic analysis, spectral theory and applications. The content may vary from time to time.

Prerequisite: Mathematics 500 and consent of the instructor.

Mathematics 621. Ordinary Differential Equations (Advanced) (3-0; 3-0) ✓

Existence and uniqueness theorems; dependence of solutions on parameters and on initial conditions. Linear differential equations. Linear systems with isolated singularities of the first and second kind. Asymptotic behavior of nonlinear systems; stability.

Prerequisite: Mathematics 421 or equivalent.

Mathematics 652. Nuclear Structure (3-0; 3-0)

Current knowledge of nuclear structure will be interpreted in terms of nuclear models and the foundations and limitations of these models discussed. Particular attention will be paid to the shell model, the optical model, and the collective model.

Prerequisite: Consent of instructor.

X. Department of Political Economy - Economics

(1) New Courses:

Economics 504. Econometrics and Mathematical Economics (3-0; 3-0)

An introduction to econometrics and a survey of mathematical economic theory.

(2) Course Changes:

Economics 200 (1). Principles of Economics (3-0; 3-0)

Members of the Department

A survey of various aspects of economics: the nature of economic problems and systems; the functions of money; commercial and central banking; national income analysis; monetary and fiscal policy; pricing under competitive and monopolistic conditions; selected topics in analysis and policy.

Economics 300 (60). Micro-Economic Analysis (3-0; 3-0)

The theory of consumer behavior; price and output determination under competition, monopoly and other market structures; the allocation of resources and resource pricing; the distribution of income.

Prerequisite: Economics 1 or 200, or 51 or 302.

Economics 310 (61). Canadian Economic Development (3-0; 3-0)

M. J. Boote

The relative growth of various industries and the regional distribution of economic activity with emphasis on the role of export staples, technology, capital accumulation and government.

Economics 311. Western European Economic Development (3-0; 3-0)

M. J. Boote

The development of the economy of Western Europe since the middle ages with emphasis on economic change in the United Kingdom, France and Germany.

Economics 320 (64). International Trade (3-0; 3-0)

T. L. Powrie

An analysis of the theoretical basis of international trade, the theory of balance of payments adjustments, and related problems. A survey of the development of the economy of the North Atlantic community in the Modern period, with special emphasis on attempts to broaden trade and investment since the end of the Second World War.

Prerequisite: Economics 1 or 200, or 51 or 302.

Economics 330 (65). Labor Problems (3-0; 3-0)

A survey of the nature of labor economics and labor problems, including the various approaches of organized workers and employers to these problems. The approach of government to labor problems, including industrial disputes and social security. Applications of economic analysis to wages, unemployment and related problems.

Economics 350 (67). Public Finance (3-0; 3-0)

E. J. Hanson

A survey of principles and operations relating to government expenditures, revenues and debts. The objectives and techniques of fiscal policy in a theoretical framework, with emphasis on the level of economic activity, distribution of income and allocation of resources.

Prerequisite: Economics 1 or 200, or 51 or 302.

Economics 370 (69). Industry and Government (3-0; 3-0)

An examination of the structure and functioning of industry; investment and market problems; the relationships of government and industry with special reference to price and output problems.

Prerequisite: Economics 1 or 200, or 51 or 302.

Economics 380. Macro-Economic Analysis (3-0; 3-0)

W. D. Gainer

National income concepts and determination; the theory of aggregate consumption and investment; business cycle and growth applications of aggregative analysis.

Prerequisite: Economics 1 or 200, or 51 or 302.

Economics 390. Comparative Economic Systems (3-0; 3-0)

I. Moravcik

A comparative study of the institutions and theories of important contemporary economies and systems of economic organization, with emphasis on the "mixed" capitalist system, "command" economies of the Soviet type, and transitional systems embodying socialist as well as capitalist principles. A survey of socialist economic thought with emphasis on the economics of Marx.

Prerequisite: Consent of instructor.

Economics 391. The Soviet Economy (3-0; 3-0)

I. Moravcik

The Soviet economy; its development and institutional arrangements, particularly the central direction of economic activity; ideological sources of Soviet economic policies; the economics of socialism; Soviet economic performance and problems of its evaluation.

Prerequisite: Economics 1 or 200, or 51 or 302.

Economics 400 (101 and 501). History of Economic Theory (3-0; 3-0)

A survey and analysis of economic ideas and theories from ancient times to the present.

Prerequisite: Economics 1 or 200, or 51 or 302.

(3) Course deletions:

Economics 471. Business and Government (3-0; 3-0)

An analysis of the changing structure of the business sector and its relationship to the state and the rest of the economy.

Economics 613 (131) Economic Geography (3-0; 3-0)

Department of Political Economy - Political Science

(1) New Courses:

Political Science 331. Government of the United States (3-0; 3-0)

R. Baird

A study of the politics of the United States with emphasis on formal institutions in themselves and in relation to the rest of society.

Political Science 371. Governments of the United Kingdom
and Commonwealth (3-0; 3-0)

W. Dawson

A study of the structure and functioning of the government of the United Kingdom, and the adaptation of the Cabinet System in selected countries within the Commonwealth.

Political Science 381. Governments of France and Germany (3-0; 3-0)

To be announced

A study of the structure and functioning of the governments of France and Germany.

Political Science 501. Comparative Political Institutions (3-0; 3-0)

Members of the Department

A comparative study of the political institutions of democratic and non-democratic states.

(NOTE: This course is an up-graded 330 for Honors students; it will require considerably more background than 330.)

Political Science 551 (59 and 350) Public Administration (3-0; 3-0)

W. Dawson

A comparative study, with special reference to Canada, the United States, and Great Britain, of the following:

- the growth of the administration;
- the civil service and its problems;
- the theory of administration;
- the organization and control of the government bureaucracy.

Political Science 561. International Organization (3-0; 3-0)

G. R. Davy

A study of the historical development, structure and functions of international organizations, with special emphasis on the League of Nations, United Nations and Specialized Agencies.

Political Science 591. Parties and Pressure Groups (3-0; 3-0)

R. Baird

A study of the role of political parties and pressure groups in the governmental process.

Political Science 601. Comparative Political Institutions (3-0; 3-0)

Members of the Department

Political Science 690. Political Behavior (3-0; 3-0)

R. Baird

(2) Course Changes:

Political Science 310 (63). History of Political Thought (3-0; 3-0)

B. Bociurkiw

A historical and critical survey of the development of political and social philosophy from Ancient Greece to the present time, with selected readings from major political writers.

(3) Course Deletions:

Political Science 330. (58). Comparative Government

Political Science 350 (59) Public Administration

Political Science 362. International Affairs in the 20th Century.

Political Science 531. Federal and Local Government

I. Department of Botany

(1) New Courses:

Botany 321. Plant Geography (0-0; 3-0)

R. G. H. Cormack

A study of the earth's main vegetational types and the significance of their present day distribution. Normally to be taken in sequence with Zoology 321. Open to students in the third year of Botany and Zoology patterns and to students in the Geography patterns.

Prerequisites: Any two of Botany 201, Geography 201 or Zoology 220 or consent of instructor.

Botany 501. Advanced Physiology (3-0; 0-0) or (0-0; 3-0)

G. A. Maclachlan

Literature surveys, reports and discussion of current research, with emphasis on biochemical advances and on the fields of specialization of the students involved.

Prerequisite: Botany 320 or Biochemistry 350.

(2) Course Changes:

Botany 201. Introductory Botany

(2-4; 2-4)

G. A. MacLachlan, J. G. Packer

Basic anatomy and physiology of flowering plants. Survey of structure, life-cycles and evolution of the main groups of the plant kingdom.

Text: Botany--Hill, Overholts, Popp and Grove, 1960.

Botany 320. Plant Physiology

(3-3; 3-3)

J. H. Whyte, G. A. MacLachlan

Physical phenomena in living cells; water relationships of plants. Respiration, photosynthesis and growth.

Prerequisites or Corequisites: Botany 201; Chemistry 230; Chemistry 250 or 350.

Botany 350. Lower vascular Plants

(3-3; 3-3)

Lorene L. Kennedy, H. J. Brodie

The evolution and morphology of the lower vascular plants and Gymnospermae.

Prerequisite: Botany 201, or permission of the instructor.

(3) Course Deletions:

Botany 505 (105). Advanced Physiology

I. Department of Zoology

(1) New Courses:

Zoology 470. Animal Behavior

(3-0; 3-0)

S. A. Altmann

Behavior as an adaptive phenomenon. The genetic, anatomical, neurological and hormonal bases of behavior. The structure of animal societies. The systematic, ecologic and evolutionary significance of behavior.

Prerequisite or corequisite: Zoology 440, or consent of instructor.

Zoology 362. Elementary Animal Ecology

(3-3; 0-0)

An introduction to the principles governing the relationships between animals and their environments.

Prerequisites: Zoology 300, 350. Zoology 300 may be taken as a corequisite with the instructor's permission.

(To be offered in Calgary only.)

Zoology 421. Principles of Evolution (3-0; 0-0) or (0-0; 3-0)

Darwinian and post-Darwinian concepts of evolution; mechanisms of evolution; drift; isolation; variation and other selected topics.

Prerequisites: Zoology 300, 350. Zoology 300 may be taken as a corequisite with the instructor's permission.

(To be offered in Calgary only.)

Zoology 450. The Arthropods (3-3; 3-3)

An introduction to the structure, development, biology and economic significance of the Arthropoda.

Prerequisite: Zoology 350.

(To be offered in Calgary only.)

(2) Course Changes:

Zoology 300 becomes The Chordates.

Zoology 464 should be (3-3; 0-0) instead of (3-0; 0-0).

Zoology 452 becomes (0-0; 3-3) instead of (3-3; 0-0).

Zoology 555 becomes (3-3; 0-0) instead of (0-0; 3-3).

Delete prerequisites for Zoology 525.

Delete from Zoology 540 prerequisite list "Biochemistry 50 or 300. Biochemistry 300 may be taken as a corequisite with the instructor's permission."

Change prerequisites for Zoology 555 to read: "Zoology 55 or 406, 408 or instructor's permission."

(3) Course Deletions:

Zoology 564. Limnology

Zoology 566. Animal Behavior

I. Department of Modern Languages

(1) New Courses:

German 320. Second Year German Authors (3-0; 3-0)

Reading and study of selected German texts. Composition and conversation.

Corequisite: German 300; otherwise consent of the Department.

(Comment: This course would correspond to Spanish 320 and Russian 320,

and is designed to fill a gap. At present an Honors student who began German at the University can take only one German course in his second year. If he wishes to major in German, his progress is therefore unduly retarded.)

Russian 545. Seminar in Slavonic Philology (1-0; 1-0)

Prerequisite: Introduction to Comparative Slavonic Philology 540 (115a).

~~Russian 680. Slavonic Civilization (3-0; 3-0) deleted.~~

Linguistics 410. General Phonetics (3-0; 3-0)

A study of the speech organs and of speech production. Types of speech sounds. Phonetic analysis and extensive transcription practice using several Indo-European languages, as well as Eskimo and American Indian languages. Introduction to phonemic theory and analysis.

Linguistics 420. Phonemics, Morphemics and Syntax (3-0; 3-0)

Phonemic theory and analysis; the relation of phonetics to phonemics. Theory and Methods of grammatical analysis, stressing the identification and analysis of the morphological and syntactic units of a language. Examples will be taken from several Indo-European languages as well as Eskimo and American Indian languages.

Prerequisite or corequisite: Linguistics 410.

(Not offered in 1961-62)

Linguistics 430. Contrastive Linguistics (3-0; 3-0)

An analytical study of the French and English languages, comparing and contrasting their linguistic structure, i.e. phonetics, phonemics, morphology, syntactical patterns and lexicology. Practical work in oral recognition and phonetic transcription.

(2) Course Changes:

On page 126 of the current calendar, under Senior courses, delete the second sentence: All except French 350 ... etc.

Spanish 320 - change last sentence as follows:

Corequisite: Spanish 300 or 360 or 370. This course may be taken by Honors students as an additional second year course, and by students in the Foreign Languages pattern as an additional third year course, but it will not replace a regular third year course (Spanish 360 or 370).

German 100 - change hours to (3-2; 3-2).

Previously
approved
on 3 Oct. /60

Previously
approved -
Oct. 3 /60.

(2) French 600. French Medieval Literature

(3-0; 3-0)

A study of selected texts from La Chantilène de Sainte-Eulalie, La Vie de Saint-Alexis, La Chanson de Roland, Les Lais of Marie de France, Tristan et Iseult by Thomas and Béroul, the beginnings of drama, lyric poetry from Chrétien to Villon.

French 605. Chansons de geste and Roman courtois

(3-0; 3-0)

An intense discussion of the "Grolingean" and the "Arthurian" Epic: Roland, Chronique de Turpin, Pèlerinage de Charlemagne, Mainet, Anseïs de Cartage, Couronnement Louis, Chanson de Guilleume, Aliscans, Tristan, Erec, Cligès, Lancelot, Perceval. The Frankish, Spanish and Celtic origins. Medieval Latin forerunners and classical prototypes. The transformation of history into myth. From the early theories to those developed in the Société Roncevaux and the Société Internationale Arthurienne.

Spanish 602. The Poem of the Cid

(3-0; 3-0)

A careful study of the Poema together with the Cartularios del Cid, the Carmen Campidoctoris, the Historia Roderici, the Spanish Chronicles and the Romancero del Cid. The critical works of Menéndez Pidal.

Spanish 605. Early Spanish Prose

(3-0; 3-0)

Primera Crónica General: chapters on the Infantes de Lara, Bernardo del Carpio and Santiago. Las Siete Partidas and the local Fueros. The novel: Calila et Dimna, Conde Lucanor. The didactic writings and the popular Hojas sueltas from the Archpriest of Talavera to the Celestina.

Spanish 665. Contemporary Spanish Poetry

(3-0; 3-0)

The works of Antonio Machado, Juan Ramón Jiménez, Federico García Lorca, Gabriela Mistral, Jorge Guillén, Rafael Alberti, and other Spanish and Latin American poets. Their forerunners and followers from Rubén Darío to our times.

(3) Course Deletions:

French 649. Franco-German Literary Relations during the Nineteenth Century

German 695. Anglo-German Literary Relations from the Sixteenth to the Nineteenth Century

XIV. Department of Geology

(1) New Course:

Geology 402. Geology of Canada

(3-3; 3-3)

The study of the geologic regions of Canada; their stratigraphy, structure and mineral deposits.

Textbooks: Geology and Economic Minerals of Canada, 4th edition (G.S.C.);
Geological Evolution of North America (T. H. Clark and
C. W. Stearn, 1960.)

Prerequisite: Geology 201.

Note: This is a general course designed as a senior Division C option, not to be taken by students majoring in Geology. It is to be offered in both Edmonton and Calgary.

SECTION B

Department of Modern Languages

The Executive Committee approves in principle the recommendation of the Department of Modern Languages to set up courses in the field of Comparative Literature. It feels, however, that these courses should be at the Honors and Graduate level.

⁴⁹⁰
Comparative Literature ~~390~~. Literary Naturalism

(3-0; 3-0)

Literary theories from Zola to Farrell. The theatre: Paris, Berlin, Munich, Vienna. The naturalist novel from Zola to the present day. Typical themes: heredity, emancipation of woman, rise of socialism, etc. Survey of Naturalism in Scandinavia, France, Germany, Russia, England, United States, Spain and Latin America. Verism in Italy.

Guest speakers from various Departments.

Prerequisites: One senior English course and one senior foreign Language.

(To be offered in 1961-62 and alternate years by either C. H. Moore or Armin Arnold.)

⁴⁹⁴
Comparative Literature ~~394~~. Literary Romanticism from Rousseau to 1835
(3-0; 3-0)

The origins. A study of Romantic themes in French, German, English and Italian literature. Comparative studies of Romantic prose and poetry in Germany, England, France, Italy, Spain, Poland and Russia.

Guest speakers from various Departments.

Prerequisites: One senior English course and one senior foreign language course.

(To alternate with Comparative Literature 390.)

448
Comparative Literature ~~398~~. Medieval Literature (3-0; 3-0)

French and German courtly epic: Tristan, Perceval, Guillaume, Arthurian and Grail legends. Love lyrics: Troubadours, Trouveres, Minnesänger and their relationship with Spanish-Arabian parallels. The Goliards. Drama: from the tropes to the opera. Farce and comedy. The novel from its beginning to the 16th Century.

Open to senior students of ^{both} French and German.

Comparative Literature 620. Comparative Slavonic Literature (3-0; 3-0)

Comparative Literature 649. Franco-German Literary Relations during the Nineteenth Century
(formerly French 649)

Comparative Literature 695. Anglo-German Literary Relations from the Sixteenth to the Nineteenth Century
(formerly German 695)

(These courses would be A options, and should be listed on p. 47, as Comparative Literature.)

The Committee recognizes the need of the Department of Modern Languages for additional languages in Honors and Graduate programs. It feels, however, that the Department itself should justify the particular languages recommended and indicate to what extent the Department sees their use in pattern programs.

Italian 100. Beginners' Italian (5-0; 5-0)

An introductory course in Italian grammar and pronunciation. Readings of easy texts dealing with different aspects of Italian culture to provide a background for further studies.

Delete Romance Literature in English Translation (to be found on page 130 of the current calendar), which is to be replaced by Italian 350.

Italian 350. Italian Literature in English Translation (3-0; 3-0)

The origins of the sonnet and the canzone, Dante's Divine Comedy, the works of Petrarch, the lyric madrigal, the early novelists from Boccaccio to Masuccio, new concepts of drama: commedia dell' arte, commedia erudita and early opera texts, Platonist writers and the Arts: Ficino, Lionardo da Vinci, Michelangelo, the Renaissance epic of Ariost and Tasso, Mariniamo and the Baroque.

(A survey course designed for students of French and Spanish literature, English, Drama and the Fine Arts.)

(This course should be an A option, replacing Romance Literature in the list on page 47.)

omit
Calendar

Polish 100. Beginners' Polish

(5-0; 5-0)

This course is elementary and is designed to give a working knowledge of the Polish language. It provides a study of the essentials of grammar, reading and drill on useful expressions.

Polish 300. Second Year Polish

(3-0; 3-0)

Advanced Polish grammar, composition, and oral practice based on selected texts of Polish classical and contemporary literature.

Prerequisite: Polish 100 or the instructor's consent.

(Not offered in 1961-62)

SECTION C

Department of Modern Languages

The Executive Committee is opposed to the following change suggested by the Department of Modern Languages because of the stand adopted by Faculty Council at its meeting of December 1st, 1958 (see page 413).

Under Ukrainian (on page 137 of the current calendar) delete the note *:

"In the Faculty of Arts and Science credit towards a degree is given only in the honors program in Modern Languages and in the Foreign Languages pattern. Students in the honors program may take Ukrainian as a second Slavonic language but students in the Foreign Languages pattern are restricted to one Slavonic language and may not present Ukrainian if they present Russian."

(Comment of Department of Modern Languages: Experience has shown that only a few students wish to register for this language in any case, and of these few, most have a legitimate reason.)

Petitions:

To be reported by the Faculty Secretary.

